STIC Search Report
Biotech-Chem Library

STIC Database Tracking Number: 164801

TO: Celine Qian **Location: REM 2A64** 2C70 **Art Unit: 1636** **Wednesday, September 07, 2005** **Case Serial Number: 09/913878**	**From: Edward Hart** **Location: Biotech-Chem Library** **REM-1A55** **Phone: 571-272-2512** **edward.hart@uspto.gov**

Search Notes

Examiner Qian,

Here are the results of the search you requested.

Please feel free to contact me if you have any questions.

Edward Hart

Bg 17N : Ed Hart.

Access DB# 164801

SEARCH REQUEST FORM

Scientific and Technical Information Center

Requester's Full Name: Celine Qian Examiner #: 78710 Date: 9/6/05
Art Unit: 1636 Phone Number 30 20777 Serial Number: 09/913878
Mail Box and Bldg/Room Location: 2A64 Results Format Preferred (circle): ~~PAPER~~ DISK E-MAIL

If more than one search is submitted, please prioritize searches in order of need.

****

Please provide a detailed statement of the search topic, and describe as specifically as possible the subject matter to be searched. Include the elected species or structures, keywords, synonyms, acronyms, and registry numbers, and combine with the concept or utility of the invention. Define any terms that may have a special meaning. Give examples or relevant citations, authors, etc, if known. Please attach a copy of the cover sheet, pertinent claims, and abstract.

Title of Invention: Isolation & characterization of a n. crassa. silencing

Inventors (please provide full names): Giuseppe et al.

Earliest Priority Filing Date: 2/16/2000

**For Sequence Searches Only* Please include all pertinent information (parent, child, divisional, or issued patent numbers) along with the appropriate serial number.*

Please search nt 2447-6652 bp. of SEQ ID NO:1.
(interference only).

****

STAFF USE ONLY

Searcher: _____
Searcher Phone #: _____
Searcher Location: _____
Date Searcher Picked Up: 9/6/05
Date Completed: 9/7/05
Searcher Prep & Review Time: _____
Clerical Prep Time: _____
Online Time: _____

Type of Search

NA Sequence (#) 1
AA Sequence (#) _____
Structure (#) _____
Bibliographic _____
Litigation _____
Fulltext _____
Patent Family _____
Other _____

Vendors and cost where applicable

STN _____
Dialog _____
Questel/Orbit _____
Dr.Link _____
Lexis/Nexis _____
Sequence Systems DI
WWW/Internet _____
Other (specify) _____

PTO-1590 (8-01)

STIC SEARCH RESULTS FEEDBACK FORM

Biotech-Chem Library

Questions about the scope or the results of the search? Contact ***the searcher or contact:***

Mary Hale, Information Branch Supervisor
Remsen Bldg. 01 D86
571-272-2507

Voluntary Results Feedback Form

- *I am an examiner in Workgroup:* ☐ *Example: 1610*
- *Relevant prior art **found**, search results used as follows:*
  - ☐ 102 rejection
  - ☐ 103 rejection
  - ☐ Cited as being of interest.
  - ☐ Helped examiner better understand the invention.
  - ☐ Helped examiner better understand the state of the art in their technology.

Types of relevant prior art found:

- ☐ Foreign Patent(s)
- ☐ Non-Patent Literature
  (journal articles, conference proceedings, new product announcements etc.)

- *Relevant prior art **not found:***
  - ☐ Results verified the lack of relevant prior art (helped determine patentability).
  - ☐ Results were not useful in determining patentability or understanding the invention.

Comments:

Drop off or send completed forms to STIC Biotech-Chem Library, Remsen Bldg.

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: September 6, 2005, 12:28:46 ; Search time 646 Seconds
(without alignments)
10653.529 Million cell updates/sec

Title: US-09-913-878A-1_COPY_2447_6652
Perfect score: 4206
Sequence: 1 atgaaccctattactcctag.....tcacagggaatggcgattat 4206

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 1202784 seqs, 818138359 residues

Total number of hits satisfying chosen parameters: 2405568

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Issued_Patents_NA:*
1: /cgn2_6/ptodata/1/ina/5A_COMB.seq:*
2: /cgn2_6/ptodata/1/ina/5B_COMB.seq:*
3: /cgn2_6/ptodata/1/ina/6A_COMB.seq:*
4: /cgn2_6/ptodata/1/ina/6B_COMB.seq:*
5: /cgn2_6/ptodata/1/ina/PCTUS_COMB.seq:*
6: /cgn2_6/ptodata/1/ina/backfiles1.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	51.6	1.2	1164	1	US-07-640-476-6	Sequence 6, Appli
	2	49	1.2	3731	3	US-08-811-583-1	Sequence 1, Appli
	3	44	1.0	1318	3	US-08-986-304-1	Sequence 1, Appli
	4	41	1.0	1929	4	US-09-902-540-9129	Sequence 9129, Ap
c	5	41	1.0	10216	4	US-09-902-540-976	Sequence 976, App
	6	40.8	1.0	4403765	3	US-09-103-840A-2	Sequence 2, Appli
	7	40.8	1.0	4411529	3	US-09-103-840A-1	Sequence 1, Appli
c	8	40.2	1.0	803	4	US-09-270-767-12025	Sequence 12025, A
	9	39.6	0.9	1209	4	US-09-107-532A-1706	Sequence 1706, Ap
	10	39.6	0.9	1509	4	US-09-252-991A-12165	Sequence 12165, A
c	11	39.6	0.9	1692	4	US-09-252-991A-12425	Sequence 12425, A
c	12	38.8	0.9	7218	1	US-08-232-463-14	Sequence 14, Appl
	13	38.6	0.9	3192	4	US-09-949-016-2923	Sequence 2923, Ap
	14	38.6	0.9	3489	4	US-09-949-016-2922	Sequence 2922, Ap
	15	38.6	0.9	36093	4	US-09-949-016-14664	Sequence 14664, A
	16	38.6	0.9	36093	4	US-09-949-016-14665	Sequence 14665, A
c	17	38	0.9	17897	4	US-09-902-540-1182	Sequence 1182, Ap
c	18	37.2	0.9	505	4	US-09-621-976-15639	Sequence 15639, A
	19	36.8	0.9	1548	2	US-08-762-106-5	Sequence 5, Appli
	20	36.8	0.9	1548	3	US-09-320-774-5	Sequence 5, Appli
	21	36.8	0.9	1581	2	US-08-762-106-6	Sequence 6, Appli
	22	36.8	0.9	1581	3	US-09-320-774-6	Sequence 6, Appli
c	23	36.8	0.9	2142	4	US-09-270-767-13530	Sequence 13530, A
c	24	36.6	0.9	1065	4	US-09-340-798A-31	Sequence 31, Appl
	25	36.4	0.9	1160	4	US-09-023-655-909	Sequence 909, App
c	26	36.2	0.9	816	4	US-09-252-991A-11434	Sequence 11434, A
c	27	36.2	0.9	1332	4	US-09-252-991A-4685	Sequence 4685, Ap
	28	36.2	0.9	1473	4	US-09-252-991A-4812	Sequence 4812, Ap
	29	36.2	0.9	1524	4	US-09-252-991A-11455	Sequence 11455, A
	30	36.2	0.9	1551	4	US-09-252-991A-4758	Sequence 4758, Ap
c	31	36.2	0.9	2028	4	US-09-252-991A-11416	Sequence 11416, A
	32	35.4	0.8	1437	4	US-09-902-540-8578	Sequence 8578, Ap
c	33	35.4	0.8	1722	3	US-09-385-028-15	Sequence 15, Appl
c	34	35.4	0.8	1722	4	US-09-726-614-15	Sequence 15, Appl
c	35	35.4	0.8	1722	4	US-09-385-040-15	Sequence 15, Appl
	36	35.4	0.8	9081	4	US-09-902-540-905	Sequence 905, App
c	37	35.4	0.8	11604	3	US-09-385-028-13	Sequence 13, Appl
c	38	35.4	0.8	11604	4	US-09-726-614-13	Sequence 13, Appl
c	39	35.4	0.8	11604	4	US-09-385-040-13	Sequence 13, Appl
c	40	35.4	0.8	15079	3	US-09-385-028-1	Sequence 1, Appli
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c	42	35.4	0.8	15120	4	US-09-385-040-1	Sequence 1, Appli
	43	35.2	0.8	1546	3	US-09-383-318A-1	Sequence 1, Appli
c	44	35.2	0.8	3711	4	US-09-902-540-7049	Sequence 7049, Ap
	45	35.2	0.8	13624	4	US-09-902-540-1053	Sequence 1053, Ap

ALIGNMENTS

RESULT 1
US-07-640-476-6
; Sequence 6, Application US/07640476
; Patent No. 5376536
; GENERAL INFORMATION:
; APPLICANT: QUAX, WILHELMUS
; APPLICANT: LUITEN, RUDOLF G.M.
; APPLICANT: SCHUURHUIZEN, PAUL W.
; APPLICANT: MRABET, NADIR
; TITLE OF INVENTION: NOVEL GLUCOSE ISOMERASE ENZYMES AND
; TITLE OF INVENTION: THEIR USE
; NUMBER OF SEQUENCES: 22
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Morrison & Foerster
; STREET: 545 Middlefield Road, Suite 200
; CITY: Menlo Park
; STATE: CA
; COUNTRY: USA
; ZIP: 94025
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; SOFTWARE:
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/640,476
; FILING DATE: 19910110
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Kate H. Murashige
; REGISTRATION NUMBER: 29,959
; REFERENCE/DOCKET NUMBER: 24615-20009.20
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (415) 327-7250
; TELEFAX: (415) 327-2951
; TELEX: 706141
; INFORMATION FOR SEQ ID NO: 6:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 1164 base pairs
; TYPE: NUCLEIC ACID
; STRANDEDNESS: double
; TOPOLOGY: linear
; MOLECULE TYPE: DNA (genomic)
; HYPOTHETICAL: NO
; ANTI-SENSE: NO
; ORIGINAL SOURCE:
; ORGANISM: Streptomyces murinus
; STRAIN: DSM 40091
; FEATURE:

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;       NAME/KEY:  CDS
;       LOCATION:  1..1164
;       IDENTIFICATION METHOD:  experimental
;       OTHER INFORMATION:  /EC_number= 5.3.1.5
;       OTHER INFORMATION:  /product= "xylose isomerase (glucose isomerase)"
;       OTHER INFORMATION:  /evidence= EXPERIMENTAL
;       OTHER INFORMATION:  /standard_name= "D-xylose ketol isomerase"
US-07-640-476-6

  Query Match             1.2%;  Score 51.6;  DB 1;  Length 1164;
  Best Local Similarity   47.8%;  Pred. No. 2.5e-05;
  Matches  150;  Conservative    0;  Mismatches  164;  Indels    0;  Gaps    0;

Qy         31 AGCCCCGTCGAGGAAATCATAAACCGGCTCAATAACGACTACAACCTGGGCCTCCAGTGT 90
              | |||||  ||     |||    | | ||    | || |  |   | |||     |
Db         16 ACCCCCGAGGACAGGTTCACCTTCGGTCTGTGGACCGTCGGCTGGCAGGGAAGGGACCCG 75

Qy         91 GTCGCAGACACAACTCTCACCCCCCACCGCCGGAAGGAGCTGGCCGAGAGTGACGAGGAT 150
              |||  ||| | || | | || ||| |  || |   |||  ||   || |    |  ||
Db         76 TTCGGCGACGCCACCCGCCCCGCCCTCGACCCGGTCGAGACGGTGCAGCGCCTGGCCGAG 135

Qy        151 TTCGGTCGCCATGACAAGATCTACAGAGCCCTGAACTTTCTCTACTGGCGGAAGGATGAC 210
              | ||   | | |    || || |   | |    || |  ||  ||   ||      |||
Db        136 CTGGGCGCCTACGGAGTGACCTTCCACGACGACGACCTGATCCCCTTCGGGTCCTCCGAC 195

Qy        211 TCCCTGAACCAGGCAGAAGCCAACTTCTTCATCGAGGCCAAAGCTGCGAGCTCGAACTGG 270
              ||  |  | || |  |   |||   ||||  | |||||   |  || | |   |    |
Db        196 ACCGAGCGCGAGTCGCACATCAAGCGCTTCCGCCAGGCCCTGGACGCCACCGGCATGACG 255

Qy        271 GTGCCCAAAGCCCACGCCGACCCTGACACGCTTCCGTGGTCCAAGGAACCTCCCCGCGCC 330
              |||||||  |||  | || |||     ||| |  ||   | ||||||      |  | ||
Db        256 GTGCCCATGGCCACCACCAACCTCTTCACCCACCCCGTCTTCAAGGACGGCGGCTTCACC 315

Qy        331 GCTACTGCCGGCCA 344
              || |  | | || |
Db        316 GCCAACGACCGCGA 329


RESULT 2
US-08-811-583-1
; Sequence 1, Application US/08811583
; Patent No. 6218142
;  GENERAL INFORMATION:
;    APPLICANT:  Wassenegger, Michael
;    APPLICANT:  Riedel, Leonhard
;    APPLICANT:  Schiebel, Winfried
;    APPLICANT:  Sanger, Heinz
;    TITLE OF INVENTION:  NUCLEIC ACID MOLECULES ENCODING
;    TITLE OF INVENTION:  POLYPEPTIDES HAVING THE ENZYMATIC ACTIVITY OF AN
;    TITLE OF INVENTION:  RNA-DIRECTED RNA POLYMERASE (RdRP)
;    NUMBER OF SEQUENCES:  13
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  FISH & NEAVE
;      STREET:  1251 Avenue of the Americas
;      CITY:  New York
;      STATE:  New York
;      COUNTRY:  USA
;      ZIP:  10020
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.30
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/811,583
;      FILING DATE:  05-MAR-1997
;      CLASSIFICATION:  536
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  Haley, James F.
;      REGISTRATION NUMBER:  27,794
;      REFERENCE/DOCKET NUMBER:  MPG-1
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  212-596-9000
;      TELEFAX:  212-596-9090
;  INFORMATION FOR SEQ ID NO:  1:
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  3731 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    MOLECULE TYPE:  cDNA
;    ORIGINAL SOURCE:
;      ORGANISM:  Tomato
;    FEATURE:
;      NAME/KEY:  CDS
;      LOCATION:  194..3535
US-08-811-583-1

  Query Match             1.2%;  Score 49;  DB 3;  Length 3731;
  Best Local Similarity   51.6%;  Pred. No. 0.00041;
  Matches  112;  Conservative    0;  Mismatches  105;  Indels    0;  Gaps    0;

Qy       2850 TACACTCCTATCGGACTGTGATGTCCTCGTGGCGCGATCCCCAGCCCATTTCCCTAGTGA 2909
              ||   || |   | | |  |||| | || ||   |   |||  |      ||| ||||
Db       2425 TAATTTCATTCTGAAGGGAAATGTGGTTGTTGCAAAAAATCCATGCTTGCATCCTGGTGA 2484

Qy       2910 TATCCAACGGGTTCGAGCAGTCTTCAAGCCAGAGCTCCACAGTCTCAAGGATGTAATCAT 2969
              ||| |      |   || ||       | || ||| |||    |   |||    |  |
Db       2485 TATTCGTGTTTTAAAGGCTGTAAATGTTCGAGCGCTGCACCACATGGTAGATTGTGTTGT 2544

Qy       2970 CTTCTCTACTAAAGGAGATGTACCGCTTGCTAAGAAGCTATCTGGTGGAGACTACGACGG 3029
              ||| ||   |||||| |   ||| | | | ||  |    |||||  | || |  || ||
Db       2545 ATTCCCTCAGAAAGGAAAAAGACCTCATCCGAATGAATGTTCTGGGAGTGATTTGGATGG 2604

Qy       3030 CGATATGGCCTGGGTCTGCTGGGATCCGGAGATCGTC 3066
              |||||   ||  || ||||||||||  || ||  ||
Db       2605 GGATATCTACTTTGTTTGCTGGGATCAAGACATGATC 2641


RESULT 3
US-08-986-304-1
; Sequence 1, Application US/08986304A
; Patent No. 6184343
; GENERAL INFORMATION:
;  APPLICANT: Stamatoyannopoulos, George
;  APPLICANT: Papayannopoulou, Thalia
;  APPLICANT: Yang, Yi
;  TITLE OF INVENTION: FETAL GLOBIN INDUCING FACTOR
;  FILE REFERENCE: 64657.0102
;  CURRENT APPLICATION NUMBER: US/08/986,304A
;  CURRENT FILING DATE: 1997-12-05
;  EARLIER APPLICATION NUMBER: 60/033,247
;  EARLIER FILING DATE: 1996-12-06
;  NUMBER OF SEQ ID NOS: 3
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 1318
;   TYPE: DNA
;   ORGANISM: Homo sapiens
US-08-986-304-1

  Query Match             1.0%;  Score 44;  DB 3;  Length 1318;
  Best Local Similarity   51.0%;  Pred. No. 0.0078;
  Matches  104;  Conservative    0;  Mismatches  100;  Indels    0;  Gaps    0;

Qy       2506 AATCGCCCAGTGGAATTTCGCCAATGGGTTTACGAGAGTTATTCCAGTCGCGCAACTCGA 2565
              |||  |  |||||  | |  |  |  |    | ||     ||  || |  |  |||   |
Db        592 AATACCAGAGTGGCTTCTTTCTTACTGCAGCATGATGCAGATATCAATGCCCAAACAAAA 651

Qy       2566 GTCAGCCACGGCCGTGTGCCTTTTCTTGCTGGGCTACCTGACAGTCAAGAGGAGACACTG 2625
              | |  |      ||   ||| | ||  |||||||      |||||  | ||       |
Db        652 GGCCTCTTGACCCCCTTGCATCTTGCTGCTGGGAACAGAGACAGCAAGGATACCCTAGAA 711

Qy       2626 AACTTCTTGATGAACAGTGGGTTCGATCCCAAGAAGCAAAAGTACTTGCAAGACATCGCC 2685
              | || |||||||| ||    || | ||   |  | ||||  ||||| |||| |  ||
Db        712 CTCCTCCTGATGAACCGTTACGTCAAACCAGGGCTGAAAAACAACTTGGAAGAAACTGCA 771
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Qy       2686 TGGGATCTTCAAAAGCGGAAATGT 2709
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Db        772 TTTGATATTGCCAGGAGGACAAGT 795
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RESULT 4
US-09-902-540-9129
; Sequence 9129, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 9129
; LENGTH: 1929
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-9129

Query Match 1.0%; Score 41; DB 4; Length 1929;
Best Local Similarity 47.2%; Pred. No. 0.097;
Matches 125; Conservative 0; Mismatches 140; Indels 0; Gaps 0;

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Qy       3527 ACAAGGAACTGGAAGCCTTCCACAATGCCATGAAAGCGGCCAAGGATACAGAAGACGGCG 3586
             | ||| ||||||  |  | ||  |     |||  | | | | ||| |     ||  || ||
Db        692 AGAAGCAACTGGCGGAGTACCTGACGCGCATCGAGGAGTCGAAGAAGCGCGACCACCGCA 751

Qy       3587 CTCACTTTTGGGATCCGGATCTCGCTTCCTACTACACGTTCTTCAAGGAGATTAGCGACA 3646
               |       ||| | ||| |||     || | || ||| ||    ||       | |
Db        752 AGCTGGGCAAGGAGCTGGACCTCTTCCACTTCCACCCGTACTCGCCGGGCTCCGCCTTCT 811

Qy       3647 AGTCGCGATCGTCCGCACTGCTATTCACGACTCTGAAGAACCGTATCGGCGAAGTCGAGA 3706
              | | |   |  | |   ||| | ||| || |||  |||| | ||  |  | |   |
Db        812 GGACCCCGAAGGGCACCACGCTCTACACCACGCTGTCGAACTGGATGCGTCAGCTGACGC 871

Qy       3707 AAGAATATGGCAGGTTGGTCAAAAACAAGGAGATGAGAGACAGCAAGGACCCCTACCCTG 3766
              |  |  | |||    |||  |  || | |    |||    || |||||  |  |
Db        872 AGAACGACGGCTACGTGGAGATCAAGACGCCCCTGATGTTCAACAAGGGGCTGTGGGAGA 931

Qy       3767 TCCGCGTCAACCAGGTTTATGAAAA 3791
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Db        932 CCAGCGGCCACTGGGGCAAGTACAA 956
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RESULT 5
US-09-902-540-976/c
; Sequence 976, Application US/09902540
; Patent No. 6833447
; GENERAL INFORMATION:
; APPLICANT: Goldman, Barry S.
; APPLICANT: Hinkle, Gregory J.
; APPLICANT: Slater, Steven C.
; APPLICANT: Wiegand, Roger C.
; TITLE OF INVENTION: Myxococcus xanthus Genome Sequences and Uses Thereof
; FILE REFERENCE: 38-10(15849)B
; CURRENT APPLICATION NUMBER: US/09/902,540
; CURRENT FILING DATE: 2001-07-10
; PRIOR APPLICATION NUMBER: 60/217,883
; PRIOR FILING DATE: 2000-07-10
; NUMBER OF SEQ ID NOS: 16825
; SEQ ID NO 976
; LENGTH: 10216
; TYPE: DNA
; ORGANISM: Myxococcus xanthus
US-09-902-540-976

Query Match 1.0%; Score 41; DB 4; Length 10216;
Best Local Similarity 47.2%; Pred. No. 0.34;
Matches 125; Conservative 0; Mismatches 140; Indels 0; Gaps 0;

```
Qy       3527 ACAAGGAACTGGAAGCCTTCCACAATGCCATGAAAGCGGCCAAGGATACAGAAGACGGCG 3586
             | ||| ||||||  |  | ||  |     |||  | | | | ||| |     ||  || ||
Db       2066 AGAAGCAACTGGCGGAGTACCTGACGCGCATCGAGGAGTCGAAGAAGCGCGACCACCGCA 2007

Qy       3587 CTCACTTTTGGGATCCGGATCTCGCTTCCTACTACACGTTCTTCAAGGAGATTAGCGACA 3646
               |       ||| | ||| |||     || | || ||| ||    ||       | |
Db       2006 AGCTGGGCAAGGAGCTGGACCTCTTCCACTTCCACCCGTACTCGCCGGGCTCCGCCTTCT 1947

Qy       3647 AGTCGCGATCGTCCGCACTGCTATTCACGACTCTGAAGAACCGTATCGGCGAAGTCGAGA 3706
              | | |   |  | |   ||| | ||| || |||  |||| | ||  |  | |   |
Db       1946 GGACCCCGAAGGGCACCACGCTCTACACCACGCTGTCGAACTGGATGCGTCAGCTGACGC 1887

Qy       3707 AAGAATATGGCAGGTTGGTCAAAAACAAGGAGATGAGAGACAGCAAGGACCCCTACCCTG 3766
              |  |  | |||    |||  |  || | |    |||    || |||||  |  |
Db       1886 AGAACGACGGCTACGTGGAGATCAAGACGCCCCTGATGTTCAACAAGGGGCTGTGGGAGA 1827

Qy       3767 TCCGCGTCAACCAGGTTTATGAAAA 3791
              | ||| | ||  ||   |  | ||
Db       1826 CCAGCGGCCACTGGGGCAAGTACAA 1802
```

RESULT 6
US-09-103-840A-2
; Sequence 2, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
; APPLICANT: FLEISCHMAN, Robert D.
; APPLICANT: WHITE, Owen R.
; APPLICANT: FRASER, Claire M.
; APPLICANT: VENTER, John C.
; TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
; TITLE OF INVENTION: TUBERCULOSIS
; FILE REFERENCE: 24366-20007.00
; CURRENT APPLICATION NUMBER: US/09/103,840A
; CURRENT FILING DATE: 1998-06-24
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 4403765
; TYPE: DNA
; ORGANISM: Mycobacterium tuberculosis
; FEATURE:
; OTHER INFORMATION: CDC 1551
; OTHER INFORMATION: "n" bases at various positions throughout the sequence
; OTHER INFORMATION: represent a, t, c or g
US-09-103-840A-2

Query Match 1.0%; Score 40.8; DB 3; Length 4403765;
Best Local Similarity 49.5%; Pred. No. 37;
Matches 105; Conservative 0; Mismatches 107; Indels 0; Gaps 0;

```
Qy       3952 CCCAAGTTCGTGTGGCAGATGGCGGGCAGACAGCTCGCGTACATTAAGGCGCAGATGACG 4011
             |||  |||| |||  ||  ||||  |   | | | |    ||  | |    | |||  || | ||
Db     426833 CCCGAGTTGGTGCCGCCGATGCCCACCTGGCTGTCGCCGGATAGGCCGACGCCGAAGCCG 426892

Qy       4012 AGCAGACCCGGTGAAGGCGCCCCGGCGTTGATGACCGCGTTCATGTATGCGGGCTTGATG 4071
                 |||                  ||| |||||  |    |      || |   |    || ||
Db     426893 CCGGTGCCCATGTTGCCGATGCCGACGTTGCCGGTGCCCGAGTTGAACAAGCCGGTGTTG 426952

Qy       4072 CCGGATAAGAAGTTTACGAAGCAGTATGTGGCCAGGCTGGAGGGCGATGGATCGGAGTAC 4131
              ||||    | ||||  |  ||||  |    ||||   || ||||     |   | ||| ||
Db     426953 CCGGTGCCGGAGTTGAACAAGCCGGTGTTGGCGGTGCCGGAGTTGAAGAAACCGGTGTTG 427012

Qy       4132 CCTGATCCGGAGGTCTATGAAGTGCTGGGCGA 4163
              ||  |  |||||| ||   ||  ||  |   ||
Db     427013 CCGGCGCCGGAGTTCAGGGAGCTGAAGCCGGA 427044
```

```
RESULT 7
US-09-103-840A-1
; Sequence 1, Application US/09103840A
; Patent No. 6294328
; GENERAL INFORMATION:
;  APPLICANT: FLEISCHMAN, Robert D.
;  APPLICANT:  WHITE, Owen R.
;  APPLICANT:  FRASER, Claire M.
;  APPLICANT:  VENTER, John C.
;  TITLE OF INVENTION: DNA SEQUENCES FOR STRAIN ANALYSIS IN MYCOBACTERIUM
;  TITLE OF INVENTION:  TUBERCULOSIS
;  FILE REFERENCE: 24366-20007.00
;  CURRENT APPLICATION NUMBER: US/09/103,840A
;  CURRENT FILING DATE:  1998-06-24
;  NUMBER OF SEQ ID NOS: 2
;  SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
;   LENGTH: 4411529
;   TYPE: DNA
;   ORGANISM: Mycobacterium tuberculosis
;   OTHER INFORMATION: H37Rv
US-09-103-840A-1

  Query Match             1.0%;  Score 40.8;  DB 3;  Length 4411529;
  Best Local Similarity   49.5%;  Pred. No. 37;
  Matches  105;  Conservative    0;  Mismatches  107;  Indels    0;  Gaps    0;

Qy       3952 CCCAAGTTCGTGTGGCAGATGGCGGGCAGACAGCTCGCGTACATTAAGGCGCAGATGACG 4011
             ||| |||| |||  || |||| |   | | | |    || | |    | ||| || | ||
Db     426675 CCCGAGTTGGTGCCGCCGATGCCCACCTGGCTGTCGCCGGATAGGCCGACGCCGAAGCCG 426734

Qy       4012 AGCAGACCCGGTGAAGGCGCCCCGGCGTTGATGACCGCGTTCATGTATGCGGGCTTGATG 4071
                 |||              ||| |||||  |     |      || |   |    || ||
Db     426735 CCGGTGCCCATGTTGCCGATGCCGACGTTGCCGGTGCCCGAGTTGAACAAGCCGGTGTTG 426794

Qy       4072 CCGGATAAGAAGTTTACGAAGCAGTATGTGGCCAGGCTGGAGGGCGATGGATCGGAGTAC 4131
              ||||    | |||| |  |||| |    ||||   || ||||    |   | ||| ||
Db     426795 CCGGTGCCGGAGTTGAACAAGCCGGTGTTGGCGGTGCCGGAGTTGAAGAAACCGGTGTTG 426854

Qy       4132 CCTGATCCGGAGGTCTATGAAGTGCTGGGCGA 4163
              || |  |||||| ||   ||  ||  |   ||
Db     426855 CCGGCGCCGGAGTTCAGGGAGCTGAAGCCGGA 426886


RESULT 8
US-09-270-767-12025/c
; Sequence 12025, Application US/09270767
; Patent No. 6703491
; GENERAL INFORMATION:
;  APPLICANT: Homburger et al.
;  TITLE OF INVENTION: Nucleic acids and proteins of Drosophila melanogaster
;  FILE REFERENCE: File Reference: 7326-094
;  CURRENT APPLICATION NUMBER: US/09/270,767
;  CURRENT FILING DATE: 1999-03-17
;  NUMBER OF SEQ ID NOS: 62517
;  SOFTWARE: PatentIn Ver. 2.0
; SEQ ID NO 12025
;   LENGTH: 803
;   TYPE: DNA
;   ORGANISM: Drosophila melanogaster
US-09-270-767-12025

  Query Match             1.0%;  Score 40.2;  DB 4;  Length 803;
  Best Local Similarity   70.1%;  Pred. No. 0.091;
  Matches   54;  Conservative    0;  Mismatches   23;  Indels    0;  Gaps    0;

Qy       4109 TGGAGGGCGATGGATCGGAGTACCCTGATCCGGAGGTCTATGAAGTGCTGGGCGATGATG 4168
              |||||| | ||||  ||| |  || || |  ||||||| |||  ||| ||| | ||||||
Db         96 TGGAGGACCATGGTGCGGTGGCCCATGGTGGGGAGGTCCATGGTGTGGTGGCCCATGATG 37

Qy       4169 ATTTTGATGGAATTGGT 4185
              ||  || |||   ||||

Db         36 ATGGTGGTGGTCGTGGT 20


RESULT 9
US-09-107-532A-1706
; Sequence 1706, Application US/09107532A
; Patent No. 6583275
;   GENERAL INFORMATION:
;        APPLICANT: Lynn A Doucette-Stamm  and David Bush
;        TITLE OF INVENTION: NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO
;                            ENTEROCOCCUS FAECIUM FOR DIAGNOSTICS AND THERAPEUTICS
;        NUMBER OF SEQUENCES: 7310
;        CORRESPONDENCE ADDRESS:
;             ADDRESSEE: GENOME THERAPEUTICS CORPORATION
;             STREET: 100 Beaver Street
;             CITY: Waltham
;             STATE: Massachusetts
;             COUNTRY: USA
;             ZIP: 02354
;        COMPUTER READABLE FORM:
;             MEDIUM TYPE: CD/ROM ISO9660
;             COMPUTER: PC
;             OPERATING SYSTEM: <Unknown>
;             SOFTWARE: ASCII
;        CURRENT APPLICATION DATA:
;             APPLICATION NUMBER: US/09/107,532A
;             FILING DATE: 30-Jun-1998
;        PRIOR APPLICATION DATA:
;             APPLICATION NUMBER: 60/085,598
;             FILING DATE: 14 May 1998
;             APPLICATION NUMBER: 60/051571
;             FILING DATE: July 2, 1997
;        ATTORNEY/AGENT INFORMATION:
;             NAME: Ariniello, Pamela Deneke
;             REGISTRATION NUMBER: 40,489
;             REFERENCE/DOCKET NUMBER: GTC-012
;        TELECOMMUNICATION INFORMATION:
;             TELEPHONE: (781)893-5007
;             TELEFAX: (781)893-8277
;   INFORMATION FOR SEQ ID NO: 1706:
;        SEQUENCE CHARACTERISTICS:
;             LENGTH: 1209 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: double
;             TOPOLOGY: circular
;        MOLECULE TYPE: DNA (genomic)
;        HYPOTHETICAL: NO
;        ANTI-SENSE: NO
;        ORIGINAL SOURCE:
;             ORGANISM: Enterococcus faecium
;        FEATURE:
;             NAME/KEY:  misc_feature
;             LOCATION: (B) LOCATION 1...1209
;        SEQUENCE DESCRIPTION: SEQ ID NO: 1706:
US-09-107-532A-1706

  Query Match             0.9%;  Score 39.6;  DB 4;  Length 1209;
  Best Local Similarity   49.1%;  Pred. No. 0.19;
  Matches  105;  Conservative    0;  Mismatches  109;  Indels    0;  Gaps    0;

Qy       2504 TGAATCGCCCAGTGGAATTTCGCCAATGGGTTTACGAGAGTTATTCCAGTCGCGCAACTC 2563
              ||| |   |  |||||||| | ||     | | |  ||  | ||  |   |      | ||
Db        386 TGATTGATCTTGTGGAATTGCCCCGTGAGATGTTAGATCGCTACCCACATGAATTATCTG 445

Qy       2564 GAGTCAGCCACGGCCGTGTGCCTTTTCTTGCTGGGCTACCTGACAGTCAAGAGGAGACAC 2623
              | |      ||    ||| |      |  ||  ||  ||  | |  | ||||||    |
Db        446 GTGGTCAGCAGCAGCGTATTGGAGTCGTTCGTGCCCTTGCAGCGAATCAAGATATCATCT 505

Qy       2624 TGAACTTCTTGATGAACAGTGGGTTCGATCCCAAGAAGCAAAAGTACTTGCAAGACATCG 2683
              |||     |  |     | ||| | | ||||| |  |  |   | | ||||||||||  | |
Db        506 TGATGGACGAGCCATTCGGTGCGCTTGATCCAATCACTCGTGATTCCTTGCAAGACCTTG 565

Qy       2684 CCTGGGATCTTCAAAAGCGGAAATGTGACACGTT 2717
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                |   ||| | ||| ||||     |  | ||| |
Db        566 TCAAAGATTTACAAGAGCGTTTGGGAAAAACGAT 599


RESULT 10
US-09-252-991A-12165
; Sequence 12165, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 12165
;   LENGTH: 1509
;   TYPE: DNA
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-12165

  Query Match             0.9%;  Score 39.6;  DB 4;  Length 1509;
  Best Local Similarity   45.3%;  Pred. No. 0.23;
  Matches  144;  Conservative    0;  Mismatches  174;  Indels    0;  Gaps    0;

Qy       3638 TTAGCGACAAGTCGCGATCGTCCGCACTGCTATTCACGACTCTGAAGAACCGTATCGGCG 3697
              | | |  || |  |    || |||      | | |  |   | | | |   |    |||||
Db        482 TCACCCGCATGAAGGTGCCGACCGAGGGCGTCTGCGTGGTGCCGGACATGCTCCGCGGCG 541

Qy       3698 AAGTCGAGAAAGAATATGGCAGGTTGGTCAAAAACAAGGAGATGAGAGACAGCAAGGACC 3757
              | |||||||     |  |   |  ||| ||   |   |  |||||  | |  |      |
Db        542 ATGTCGAGATTCCGTGGGATCGCATGGACATGCAGGTGCTGATGAAGGCCGACGGCCTGC 601

Qy       3758 CCTACCCTGTCCGCGTCAACCAGGTTTATGAAAAATGGTGCGCCATCACGCCTGAGGCGA 3817
              ||  |    ||| || ||||  |||  | ||  |   |   | ||||||  |  |    |
Db        602 CCACCTACTTCCTCGCCAACGTGGTCGACGACCACCTGATGGGCATCACCCACGTCCTGC 661

Qy       3818 TGGACAAATCCGGAGCAAATTATGATTCTAAGGTGATCAGGTTGCTGGAGCTGTCCTTCC 3877
              | | ||   |      |  |  | ||| ||||||  | |    |||   | |  |
Db        662 GCGGCGAAGAGTGGCTGCCGTCGGCGCCCAAGCTGATCAAGCTCTACGAGTATTTCGGCT 721

Qy       3878 TCGCGGACCGTGAGATGAATACATGGGCATTGCTGAGGGCTAGCACGGCTTTCAAGCTGT 3937
              | | |  ||  ||      | ||  ||||| |                |||||||
Db        722 GGGAGCAGCCGCAGCTGTGCTACATGCCACTGCTGCGCAACCCGGACAAGAGCAAGCTGT 781

Qy       3938 ACTACCACAAGAGCCCCA 3955
              | | | |||||  || |
Db        782 CCAAGCGCAAGAATCCGA 799


RESULT 11
US-09-252-991A-12425/c
; Sequence 12425, Application US/09252991A
; Patent No. 6551795
; GENERAL INFORMATION:
;  APPLICANT:  Marc J. Rubenfield et al.
;  TITLE OF INVENTION:  NUCLEIC ACID AND AMINO ACID SEQUENCES RELATING TO PSEUDOMONAS
;  TITLE OF INVENTION:  AERUGINOSA FOR DIAGNOSTICS AND THERAPEUTICS
;  FILE REFERENCE:  107196.136
;  CURRENT APPLICATION NUMBER: US/09/252,991A
;  CURRENT FILING DATE:  1999-02-18
;  PRIOR APPLICATION NUMBER:  US 60/074,788
;  PRIOR FILING DATE:  1998-02-18
;  PRIOR APPLICATION NUMBER:  US 60/094,190
;  PRIOR FILING DATE:  1998-07-27
;  NUMBER OF SEQ ID NOS:  33142
; SEQ ID NO 12425
;   LENGTH: 1692
;   TYPE: DNA
;   ORGANISM: Pseudomonas aeruginosa
US-09-252-991A-12425

  Query Match             0.9%;  Score 39.6;  DB 4;  Length 1692;
  Best Local Similarity   45.3%;  Pred. No. 0.25;
  Matches  144;  Conservative    0;  Mismatches  174;  Indels    0;  Gaps    0;

Qy       3638 TTAGCGACAAGTCGCGATCGTCCGCACTGCTATTCACGACTCTGAAGAACCGTATCGGCG 3697
              | | |  || |  |    || |||      | | |  |   | | | |   |    |||||
Db       1124 TCACCCGCATGAAGGTGCCGACCGAGGGCGTCTGCGTGGTGCCGGACATGCTCCGCGGCG 1065

Qy       3698 AAGTCGAGAAAGAATATGGCAGGTTGGTCAAAAACAAGGAGATGAGAGACAGCAAGGACC 3757
              | |||||||     |  |   |  ||| ||   |   |  |||||  | |  |      |
Db       1064 ATGTCGAGATTCCGTGGGATCGCATGGACATGCAGGTGCTGATGAAGGCCGACGGCCTGC 1005

Qy       3758 CCTACCCTGTCCGCGTCAACCAGGTTTATGAAAAATGGTGCGCCATCACGCCTGAGGCGA 3817
              ||  |    ||| || ||||  |||  | ||  |   |   | ||||||  |  |    |
Db       1004 CCACCTACTTCCTCGCCAACGTGGTCGACGACCACCTGATGGGCATCACCCACGTCCTGC 945

Qy       3818 TGGACAAATCCGGAGCAAATTATGATTCTAAGGTGATCAGGTTGCTGGAGCTGTCCTTCC 3877
              | | ||   |      |  |  | ||| ||||||  | |    |||   | |  |
Db        944 GCGGCGAAGAGTGGCTGCCGTCGGCGCCCAAGCTGATCAAGCTCTACGAGTATTTCGGCT 885

Qy       3878 TCGCGGACCGTGAGATGAATACATGGGCATTGCTGAGGGCTAGCACGGCTTTCAAGCTGT 3937
              | | |  ||  ||      | ||  ||||| |                |||||||
Db        884 GGGAGCAGCCGCAGCTGTGCTACATGCCACTGCTGCGCAACCCGGACAAGAGCAAGCTGT 825

Qy       3938 ACTACCACAAGAGCCCCA 3955
              | | | |||||  || |
Db        824 CCAAGCGCAAGAATCCGA 807


RESULT 12
US-08-232-463-14/c
; Sequence 14, Application US/08232463
; Patent No. 5670367
;  GENERAL INFORMATION:
;    APPLICANT:  DORNER, F.
;    APPLICANT:  SCHEIFLINGER, F.
;    APPLICANT:  FALKNER, F. G.
;    TITLE OF INVENTION:  RECOMBINANT FOWLPOX VIRUS
;    NUMBER OF SEQUENCES:  52
;    CORRESPONDENCE ADDRESS:
;      ADDRESSEE:  Foley & Lardner
;      STREET:  1800 Diagonal Road, Suite 500
;      CITY:  Alexandria
;      STATE:  VA
;      COUNTRY:  USA
;      ZIP:  22313-0299
;    COMPUTER READABLE FORM:
;      MEDIUM TYPE:  Floppy disk
;      COMPUTER:  IBM PC compatible
;      OPERATING SYSTEM:  PC-DOS/MS-DOS
;      SOFTWARE:  PatentIn Release #1.0, Version #1.25
;    CURRENT APPLICATION DATA:
;      APPLICATION NUMBER:  US/08/232,463
;      FILING DATE:
;      CLASSIFICATION:  435
;    PRIOR APPLICATION DATA:
;      APPLICATION NUMBER:  US/07/935,313
;      FILING DATE:
;      APPLICATION NUMBER:  EP 91 114 300.6
;      FILING DATE:  26-AUG-1991
;    ATTORNEY/AGENT INFORMATION:
;      NAME:  BENT, Stephen A.
;      REGISTRATION NUMBER:  29,768
;      REFERENCE/DOCKET NUMBER:  30472/114 IMMU
;    TELECOMMUNICATION INFORMATION:
;      TELEPHONE:  (703)836-9300
;      TELEFAX:  (703)683-4109
;      TELEX:  899149
;  INFORMATION FOR SEQ ID NO:  14:
```

```
;    SEQUENCE CHARACTERISTICS:
;      LENGTH:  7218 base pairs
;      TYPE:  nucleic acid
;      STRANDEDNESS:  single
;      TOPOLOGY:  linear
;    IMMEDIATE SOURCE:
;      CLONE:  pTZgpt-F1s
US-08-232-463-14

  Query Match             0.9%;  Score 38.8;  DB 1;  Length 7218;
  Best Local Similarity   4.1%;  Pred. No. 1.4;
  Matches   16;  Conservative  208;  Mismatches  170;  Indels    0;  Gaps    0;

Qy       3810 TGAGGCGATGGACAAATCCGGAGCAAATTATGATTCTAAGGTGATCAGGTTGCTGGAGCT 3869
             | | | ||| ||  ||| ||  |:::  : ::    :::: ::  ::: :  ::::
Db       1458 TAAAGAGATAGAAGAATTTGGTACRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1399

Qy       3870 GTCCTTCCTCGCGGACCGTGAGATGAATACATGGGCATTGCTGAGGGCTAGCACGGCTTT 3929
             :       : :::  : :::: ::: : : ::: :  :  :::::  :: : ::
Db       1398 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1339

Qy       3930 CAAGCTGTACTACCACAAGAGCCCCAAGTTCGTGTGGCAGATGGCGGGCAGACAGCTCGC 3989
              :::  : :  :  : :::::    :::   : : :: ::: :: ::: ::: ::   :
Db       1338 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1279

Qy       3990 GTACATTAAGGCGCAGATGACGAGCAGACCCGGTGAAGGCGCCCCGGCGTTGATGACCGC 4049
             : : :  :::: : ::: :: ::: :::   :: ::::: :    :: :  :: :: :
Db       1278 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1219

Qy       4050 GTTCATGTATGCGGGCTTGATGCCGGATAAGAAGTTTACGAAGCAGTATGTGGCCAGGCT 4109
             :   : : : : :::   :: :  ::: ::::::   : :::: :: : : ::  :::
Db       1218 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1159

Qy       4110 GGAGGGCGATGGATCGGAGTACCCTGATCCGGAGGTCTATGAAGTGCTGGGCGATGATGA 4169
             :::::: :: :::  :::: :    ::   ::::   : :::: :  ::: :: :: ::
Db       1158 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRR 1099

Qy       4170 TTTTGATGGAATTGGTTTCACAGGGAATGGCGAT 4203
                 :: ::::  ::    : :::::: :: :||
Db       1098 RRRRRRRRRRRRRRRRRRRRRRRRRRRRRRRAT 1065


RESULT 13
US-09-949-016-2923
; Sequence 2923, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2923
;   LENGTH: 3192
;   TYPE: DNA
;   ORGANISM: Human
US-09-949-016-2923

  Query Match             0.9%;  Score 38.6;  DB 4;  Length 3192;
  Best Local Similarity   52.9%;  Pred. No. 0.85;
  Matches   83;  Conservative    0;  Mismatches   74;  Indels    0;  Gaps    0;

Qy         24 GAGGAATAGCCCCGTCGAGGAAATCATAAACCGGCTCAATAACGACTACAACCTGGGCCT 83
              || | |    ||  || |||  |        | ||  |   ||  |||| ||  |||  |
Db        137 GATGGAGCAGCCTATCAAGGTGACTGAGTGGCAGCAGACATACACCTACGACTCGGGTAT 196

Qy         84 CCAGTGTGTCGCAGACACAACTCTCACCCCCCACCGCCGGAAGGAGCTGGCCGAGAGTGA 143
              ||| |  | |||  ||||      |  || ||  | || | ||||  |    |||  ||
Db        197 CCACTCGGGCGCCAACACCTGCGTGCCCTCCGTCAGCAGCAAGGGCATCATGGAGGAGGA 256

Qy        144 CGAGGATTTCGGTCGCCATGACAAGATCTACAGAGCC 180
              ||||  | ||| |||||  ||| | || | | | ||
Db        257 TGAGGCCTGCGGGCGCCAGTACACGCTCAAGAAAACC 293


RESULT 14
US-09-949-016-2922
; Sequence 2922, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 2922
;   LENGTH: 3489
;   TYPE: DNA
;   ORGANISM: Human
US-09-949-016-2922

  Query Match             0.9%;  Score 38.6;  DB 4;  Length 3489;
  Best Local Similarity   52.9%;  Pred. No. 0.91;
  Matches   83;  Conservative    0;  Mismatches   74;  Indels    0;  Gaps    0;

Qy         24 GAGGAATAGCCCCGTCGAGGAAATCATAAACCGGCTCAATAACGACTACAACCTGGGCCT 83
              || | |    ||  || |||  |        | ||  |   ||  |||| ||  |||  |
Db        137 GATGGAGCAGCCTATCAAGGTGACTGAGTGGCAGCAGACATACACCTACGACTCGGGTAT 196

Qy         84 CCAGTGTGTCGCAGACACAACTCTCACCCCCCACCGCCGGAAGGAGCTGGCCGAGAGTGA 143
              ||| |  | |||  ||||      |  || ||  | || | ||||  |    |||  ||
Db        197 CCACTCGGGCGCCAACACCTGCGTGCCCTCCGTCAGCAGCAAGGGCATCATGGAGGAGGA 256

Qy        144 CGAGGATTTCGGTCGCCATGACAAGATCTACAGAGCC 180
              ||||  | ||| |||||  ||| | || | | | ||
Db        257 TGAGGCCTGCGGGCGCCAGTACACGCTCAAGAAAACC 293


RESULT 15
US-09-949-016-14664
; Sequence 14664, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
;  APPLICANT: VENTER, J. Craig et al.
;  TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
;  TITLE OF INVENTION:  WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
;  FILE REFERENCE: CL001307
;  CURRENT APPLICATION NUMBER: US/09/949,016
;  CURRENT FILING DATE:  2000-04-14
;  PRIOR APPLICATION NUMBER: 60/241,755
;  PRIOR FILING DATE: 2000-10-20
;  PRIOR APPLICATION NUMBER: 60/237,768
;  PRIOR FILING DATE: 2000-10-03
;  PRIOR APPLICATION NUMBER: 60/231,498
;  PRIOR FILING DATE: 2000-09-08
;  NUMBER OF SEQ ID NOS: 207012
;  SOFTWARE: FastSEQ for Windows Version 4.0
; SEQ ID NO 14664
```

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;   LENGTH: 36093
;   TYPE: DNA
;   ORGANISM: Human
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)..(36093)
;   OTHER INFORMATION: n = A,T,C or G
US-09-949-016-14664

  Query Match             0.9%;  Score 38.6;  DB 4;  Length 36093;
  Best Local Similarity   52.9%;  Pred. No. 5.3;
  Matches   83;  Conservative    0;  Mismatches   74;  Indels    0;  Gaps    0;

Qy         24 GAGGAATAGCCCCGTCGAGGAAATCATAAACCGGCTCAATAACGACTACAACCTGGGCCT 83
              || | |    ||  || |||  |        | ||  |   ||  |||| ||  |||  |
Db      16851 GATGGAGCAGCCTATCAAGGTGACTGAGTGGCAGCAGACATACACCTACGACTCGGGTAT 16910

Qy         84 CCAGTGTGTCGCAGACACAACTCTCACCCCCCACCGCCGGAAGGAGCTGGCCGAGAGTGA 143
              ||| |  | |||  ||||     |  || ||  | || | ||||   |    |||  ||
Db      16911 CCACTCGGGCGCCAACACCTGCGTGCCCTCCGTCAGCAGCAAGGGCATCATGGAGGAGGA 16970

Qy        144 CGAGGATTTCGGTCGCCATGACAAGATCTACAGAGCC 180
              ||||  | ||| |||||  ||| | || | | | ||
Db      16971 TGAGGCCTGCGGGCGCCAGTACACGCTCAAGAAAACC 17007


Search completed: September  6, 2005, 20:40:05
Job time : 667 secs
```

GenCore version 5.1.6

OM nucleic - nucleic search, using sw model

Run on: September 6, 2005, 16:40:35 ; Search time 2488 Seconds
(without alignments)
11071.031 Million cell updates/sec

Title: US-09-913-878A-1_COPY_2447_6652
Perfect score: 4206
Sequence: 1 atgaaccctattactcctag.....tcacagggaatggcgattat 4206

Scoring table: IDENTITY_NUC
Gapop 10.0 , Gapext 1.0

Searched: 7338684 seqs, 3274456166 residues

Total number of hits satisfying chosen parameters: 14677368

Minimum DB seq length: 0
Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%
Maximum Match 100%
Listing first 45 summaries

Database : Published_Applications_NA:*
1: /cgn2_6/ptodata/1/pubpna/US07_PUBCOMB.seq:*
2: /cgn2_6/ptodata/1/pubpna/PCT_NEW_PUB.seq:*
3: /cgn2_6/ptodata/1/pubpna/US06_NEW_PUB.seq:*
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16: /cgn2_6/ptodata/1/pubpna/US10D_PUBCOMB.seq:*
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18: /cgn2_6/ptodata/1/pubpna/US10F_PUBCOMB.seq:*
19: /cgn2_6/ptodata/1/pubpna/US10G_PUBCOMB.seq:*
20: /cgn2_6/ptodata/1/pubpna/US10H_PUBCOMB.seq:*
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22: /cgn2_6/ptodata/1/pubpna/US10_NEW_PUB.seq:*
23: /cgn2_6/ptodata/1/pubpna/US11A_PUBCOMB.seq:*
24: /cgn2_6/ptodata/1/pubpna/US11_NEW_PUB.seq:*
25: /cgn2_6/ptodata/1/pubpna/US60_NEW_PUB.seq:*
26: /cgn2_6/ptodata/1/pubpna/US60_PUBCOMB.seq:*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

	Result No.	Score	% Query Match	Length	DB	ID	Description
	1	49	1.2	3731	9	US-09-782-874-1	Sequence 1, Appli
	2	47	1.1	1164	15	US-10-156-761-7161	Sequence 7161, Ap
	3	47	1.1	9025608	15	US-10-156-761-1	Sequence 1, Appli
	4	45.6	1.1	495	10	US-09-918-995-3407	Sequence 3407, Ap
c	5	44.8	1.1	1049	14	US-10-123-155-358	Sequence 358, App
c	6	44.8	1.1	1049	15	US-10-146-731-358	Sequence 358, App
c	7	44.8	1.1	1049	15	US-10-140-472-358	Sequence 358, App
c	8	44.8	1.1	1049	15	US-10-141-761-358	Sequence 358, App
c	9	44.8	1.1	1049	16	US-10-142-885-358	Sequence 358, App
c	10	44.8	1.1	1049	16	US-10-158-790-358	Sequence 358, App
c	11	44.8	1.1	1049	17	US-10-137-871-358	Sequence 358, App
c	12	44.8	1.1	1049	17	US-10-140-923-358	Sequence 358, App
c	13	44.8	1.1	1049	17	US-10-141-756-358	Sequence 358, App
c	14	44.8	1.1	1049	17	US-10-141-759-358	Sequence 358, App
c	15	44.8	1.1	1049	17	US-10-140-805-358	Sequence 358, App
c	16	44.8	1.1	1049	17	US-10-140-864-358	Sequence 358, App
c	17	44.8	1.1	1049	18	US-10-142-426-358	Sequence 358, App
	18	44.2	1.1	152165	20	US-10-719-993-6942	Sequence 6942, Ap
	19	44.2	1.1	152165	21	US-10-741-600-17864	Sequence 17864, A
c	20	44.2	1.1	1980090	20	US-10-719-993-6815	Sequence 6815, Ap
c	21	44.2	1.1	1980090	21	US-10-741-600-17676	Sequence 17676, A
	22	44	1.0	282	9	US-09-294-093B-1147	Sequence 1147, Ap
	23	44	1.0	1540	9	US-09-925-299-62	Sequence 62, Appl
	24	44	1.0	1540	10	US-09-925-299-62	Sequence 62, Appl
	25	44	1.0	1555	15	US-10-106-698-903	Sequence 903, App
	26	44	1.0	1625	20	US-10-425-115-113012	Sequence 113012,
	27	44	1.0	1959	20	US-10-357-930-24716	Sequence 24716, A
c	28	44	1.0	94330	13	US-10-087-192-1222	Sequence 1222, Ap
	29	43.8	1.0	1338	15	US-10-156-761-5115	Sequence 5115, Ap
	30	43.4	1.0	3719	19	US-10-437-963-20636	Sequence 20636, A
	31	42.6	1.0	1398	19	US-10-437-963-33098	Sequence 33098, A
c	32	42.4	1.0	506	16	US-10-029-386-20619	Sequence 20619, A
	33	42.4	1.0	582	19	US-10-767-701-23441	Sequence 23441, A
	34	42.4	1.0	1168	15	US-10-017-161-2179	Sequence 2179, Ap
	35	42.4	1.0	1168	17	US-10-292-798-1825	Sequence 1825, Ap
c	36	41.8	1.0	1062	19	US-10-767-701-9233	Sequence 9233, Ap
	37	41.2	1.0	1485	9	US-09-815-242-7803	Sequence 7803, Ap
	38	41.2	1.0	1485	17	US-10-282-122A-30269	Sequence 30269, A
c	39	41.2	1.0	1535	13	US-10-052-586-545	Sequence 545, App
c	40	41.2	1.0	1535	14	US-10-174-590-545	Sequence 545, App
c	41	41.2	1.0	1535	14	US-10-176-758-545	Sequence 545, App
c	42	41.2	1.0	1535	14	US-10-175-737-545	Sequence 545, App
c	43	41.2	1.0	1535	14	US-10-174-581-545	Sequence 545, App
c	44	41.2	1.0	1535	14	US-10-176-483-545	Sequence 545, App
c	45	41.2	1.0	1535	14	US-10-176-749-545	Sequence 545, App

ALIGNMENTS

```
RESULT 1
US-09-782-874-1
; Sequence 1, Application US/09782874
; Patent No. US20010023067A1
;   GENERAL INFORMATION:
;       APPLICANT: Wassenegger, Michael
;                  Riedel, Leonhard
;                  Schiebel, Winfried
;                  Sanger, Heinz
;       TITLE OF INVENTION: NUCLEIC ACID MOLECULES ENCODING
;                           POLYPEPTIDES HAVING THE ENZYMATIC ACTIVITY OF AN
;                           RNA-DIRECTED RNA POLYMERASE (RdRP)
;       NUMBER OF SEQUENCES: 13
;       CORRESPONDENCE ADDRESS:
;            ADDRESSEE: FISH & NEAVE
;            STREET: 1251 Avenue of the Americas
;            CITY: New York
;            STATE: New York
;            COUNTRY: USA
;            ZIP: 10020
;       COMPUTER READABLE FORM:
;            MEDIUM TYPE: Floppy disk
;            COMPUTER: IBM PC compatible
;            OPERATING SYSTEM: PC-DOS/MS-DOS
;            SOFTWARE: PatentIn Release #1.0, Version #1.30
;       CURRENT APPLICATION DATA:
;            APPLICATION NUMBER: US/09/782,874
;            FILING DATE: 08-Feb-2001
;            CLASSIFICATION: <Unknown>
;       PRIOR APPLICATION DATA:
```

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;             APPLICATION NUMBER: US 08/811,583
;             FILING DATE: 05-MAR-1997
;       ATTORNEY/AGENT INFORMATION:
;             NAME: Haley, James F.
;             REGISTRATION NUMBER: 27,794
;             REFERENCE/DOCKET NUMBER: MPG-1
;       TELECOMMUNICATION INFORMATION:
;             TELEPHONE: 212-596-9000
;             TELEFAX: 212-596-9090
;   INFORMATION FOR SEQ ID NO: 1:
;     SEQUENCE CHARACTERISTICS:
;             LENGTH: 3731 base pairs
;             TYPE: nucleic acid
;             STRANDEDNESS: single
;             TOPOLOGY: linear
;     MOLECULE TYPE: cDNA
;       ORIGINAL SOURCE:
;             ORGANISM: Tomato
;       FEATURE:
;             NAME/KEY:  CDS
;             LOCATION:  194..3535
;       SEQUENCE DESCRIPTION: SEQ ID NO: 1:
US-09-782-874-1

  Query Match             1.2%;  Score 49;  DB 9;  Length 3731;
  Best Local Similarity   51.6%;  Pred. No. 0.00041;
  Matches  112;  Conservative    0;  Mismatches  105;  Indels    0;  Gaps    0;

Qy       2850 TACACTCCTATCGGACTGTGATGTCCTCGTGGCGCGATCCCCAGCCCATTTCCCTAGTGA 2909
             ||   || |   | |  |  |||| | || ||   |   |||  |      ||| ||||
Db       2425 TAATTTCATTCTGAAGGGAAATGTGGTTGTTGCAAAAAATCCATGCTTGCATCCTGGTGA 2484

Qy       2910 TATCCAACGGGTTCGAGCAGTCTTCAAGCCAGAGCTCCACAGTCTCAAGGATGTAATCAT 2969
             ||| |      |   || ||       | || ||| |||   |   |||    |  |
Db       2485 TATTCGTGTTTTAAAGGCTGTAAATGTTCGAGCGCTGCACCACATGGTAGATTGTGTTGT 2544

Qy       2970 CTTCTCTACTAAAGGAGATGTACCGCTTGCTAAGAAGCTATCTGGTGGAGACTACGACGG 3029
              ||| ||   |||||| |   ||| | | | ||  |    |||||  | || |  || ||
Db       2545 ATTCCCTCAGAAAGGAAAAAGACCTCATCCGAATGAATGTTCTGGGAGTGATTTGGATGG 2604

Qy       3030 CGATATGGCCTGGGTCTGCTGGGATCCGGAGATCGTC 3066
              |||||   ||  || ||||||||||  || ||  ||
Db       2605 GGATATCTACTTTGTTTGCTGGGATCAAGACATGATC 2641


RESULT 2
US-10-156-761-7161
; Sequence 7161, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
;  APPLICANT: OMURA, SATOSHI
;  APPLICANT:  IKEDA, HARUO
;  APPLICANT:  ISHIKAWA, JUN
;  APPLICANT:  HORIKAWA, HIROSHI
;  APPLICANT:  SHIBA, TADAYOSHI
;  APPLICANT:  SAKAKI, YOSHIYUKI
;  APPLICANT:  HATTORI, MASAHIRA
;  TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
;  FILE REFERENCE: 249-262
;  CURRENT APPLICATION NUMBER: US/10/156,761
;  CURRENT FILING DATE:  2002-05-29
;  PRIOR APPLICATION NUMBER: JP 2001-204089
;  PRIOR FILING DATE: 2001-05-30
;  PRIOR APPLICATION NUMBER: JP 2001-272697
;  PRIOR FILING DATE: 2001-08-02
;  NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 7161
;   LENGTH: 1164
;   TYPE: DNA
;   ORGANISM: Streptomyces avermitilis
;   FEATURE:
;   NAME/KEY: CDS
;   LOCATION: (1)..(1164)
US-10-156-761-7161

  Query Match             1.1%;  Score 47;  DB 15;  Length 1164;
  Best Local Similarity   46.9%;  Pred. No. 0.00097;
  Matches  146;  Conservative    0;  Mismatches  165;  Indels    0;  Gaps    0;

Qy         31 AGCCCCGTCGAGGAAATCATAAACCGGCTCAATAACGACTACAACCTGGGCCTCCAGTGT 90
              | |||||  ||      |||    | | ||    | || |  |   | |||     |
Db         16 ACCCCCGAGGACAGGTTCACCTTCGGCCTGTGGACCGTCGGCTGGCAGGGAAGGGACCCG 75

Qy         91 GTCGCAGACACAACTCTCACCCCCCACCGCCGGAAGGAGCTGGCCGAGAGTGACGAGGAT 150
               |||  ||| | || |    | |||    || |   |||  ||   || |   ||  |
Db         76 TTCGGCGACGCCACCCGGCGCGCCCTGGACCCGGTCGAGACGGTGCAGCGCCTCGCCGGG 135

Qy        151 TTCGGTCGCCATGACAAGATCTACAGAGCCCTGAACTTTCTCTACTGGCGGAAGGATGAC 210
               |||||  ||| |    || || |   | |    || |  ||  ||   ||      |||
Db        136 CTCGGTGCCCACGGAGTGACCTTCCACGACGACGACCTGATCCCCTTCGGGTCCTCGGAC 195

Qy        211 TCCCTGAACCAGGCAGAAGCCAACTTCTTCATCGAGGCCAAAGCTGCGAGCTCGAACTGG 270
               ||  |  | || |  |   |||   ||||    |||||   |  || | |   |
Db        196 ACCGAGCGCGAGTCGCACATCAAGCGCTTCCGGCAGGCCCTCGACGCCACCGGCATGGCC 255

Qy        271 GTGCCCAAAGCCCACGCCGACCCTGACACGCTTCCGTGGTCCAAGGAACCTCCCCGCGCC 330
              |||||  |  |||  | || |||    |||||  ||    | ||||||     |   | ||
Db        256 GTGCCGATGGCCACCACCAACCTCTTCACGCACCCCGTCTTCAAGGACGGGGCGTTCACC 315

Qy        331 GCTACTGCCGG 341
              || |  | | |
Db        316 GCCAACGACCG 326


RESULT 3
US-10-156-761-1
; Sequence 1, Application US/10156761
; Publication No. US20030119018A1
; GENERAL INFORMATION:
;  APPLICANT: OMURA, SATOSHI
;  APPLICANT:  IKEDA, HARUO
;  APPLICANT:  ISHIKAWA, JUN
;  APPLICANT:  HORIKAWA, HIROSHI
;  APPLICANT:  SHIBA, TADAYOSHI
;  APPLICANT:  SAKAKI, YOSHIYUKI
;  APPLICANT:  HATTORI, MASAHIRA
;  TITLE OF INVENTION: NOVEL POLYNUCLEOTIDES
;  FILE REFERENCE: 249-262
;  CURRENT APPLICATION NUMBER: US/10/156,761
;  CURRENT FILING DATE:  2002-05-29
;  PRIOR APPLICATION NUMBER: JP 2001-204089
;  PRIOR FILING DATE: 2001-05-30
;  PRIOR APPLICATION NUMBER: JP 2001-272697
;  PRIOR FILING DATE: 2001-08-02
;  NUMBER OF SEQ ID NOS: 15109
; SEQ ID NO 1
;   LENGTH: 9025608
;   TYPE: DNA
;   ORGANISM: Streptomyces avermitilis
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (4187715)
;   OTHER INFORMATION: a, t, c, g, other or unknown
US-10-156-761-1

  Query Match             1.1%;  Score 47;  DB 15;  Length 9025608;
  Best Local Similarity   46.9%;  Pred. No. 0.17;
  Matches  146;  Conservative    0;  Mismatches  165;  Indels    0;  Gaps    0;

Qy         31 AGCCCCGTCGAGGAAATCATAAACCGGCTCAATAACGACTACAACCTGGGCCTCCAGTGT 90
              | |||||  ||      |||    | | ||    | || |  |   | |||     |
Db    8551009 ACCCCCGAGGACAGGTTCACCTTCGGCCTGTGGACCGTCGGCTGGCAGGGAAGGGACCCG 8551068

Qy         91 GTCGCAGACACAACTCTCACCCCCCACCGCCGGAAGGAGCTGGCCGAGAGTGACGAGGAT 150
               |||  ||| | || |    | |||    || |   |||  ||   || |   ||  |
Db    8551069 TTCGGCGACGCCACCCGGCGCGCCCTGGACCCGGTCGAGACGGTGCAGCGCCTCGCCGGG 8551128
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Qy        151 TTCGGTCGCCATGACAAGATCTACAGAGCCCTGAACTTTCTCTACTGGCGGAAGGATGAC 210
              ||||| ||| |   || || |  | |    || |  ||  ||   ||          |||
Db    8551129 CTCGGTGCCCACGGAGTGACCTTCCACGACGACGACCTGATCCCCTTCGGGTCCTCGGAC 8551188

Qy        211 TCCCTGAACCAGGCAGAAGCCAACTTCTTCATCGAGGCCAAAGCTGCGAGCTCGAACTGG 270
              ||  |  | || |  |   |||  ||||    |||||  |  || | |   |
Db    8551189 ACCGAGCGCGAGTCGCACATCAAGCGCTTCCGGCAGGCCCTCGACGCCACCGGCATGGCC 8551248

Qy        271 GTGCCCAAAGCCCACGCCGACCCTGACACGCTTCCGTGGTCCAAGGAACCTCCCCGCGCC 330
              ||||| |  |||  | || |||    |||||  ||    | ||||||      |   | ||
Db    8551249 GTGCCGATGGCCACCACCAACCTCTTCACGCACCCCGTCTTCAAGGACGGGGCGTTCACC 8551308

Qy        331 GCTACTGCCGG 341
              || |  | | |
Db    8551309 GCCAACGACCG 8551319


RESULT 4
US-09-918-995-3407
; Sequence 3407, Application US/09918995
; Publication No. US20030073623A1
; GENERAL INFORMATION:
;  APPLICANT: Hyseq, Inc.
;  TITLE OF INVENTION: NOVEL NUCLEIC ACID SEQUENCES OBTAINED
;  TITLE OF INVENTION:  FROM VARIOUS cDNA LIBRARIES
;  FILE REFERENCE: 20411-756
;  CURRENT APPLICATION NUMBER: US/09/918,995
;  CURRENT FILING DATE:  2001-07-30
;  PRIOR APPLICATION NUMBER: US/09/235,076
;  PRIOR FILING DATE: 1999-01-20
;  NUMBER OF SEQ ID NOS: 38054
;  SOFTWARE: FastSEQ for Windows Version 3.0
; SEQ ID NO 3407
;   LENGTH: 495
;   TYPE: DNA
;   ORGANISM: Homo sapiens
;   FEATURE:
;   NAME/KEY: misc_feature
;   LOCATION: (1)...(495)
;   OTHER INFORMATION: n = A,T,C or G
US-09-918-995-3407

  Query Match             1.1%;  Score 45.6;  DB 10;  Length 495;
  Best Local Similarity   51.5%;  Pred. No. 0.0017;
  Matches  105;  Conservative    0;  Mismatches   99;  Indels    0;  Gaps    0;

Qy       2506 AATCGCCCAGTGGAATTTCGCCAATGGGTTTACGAGAGTTATTCCAGTCGCGCAACTCGA 2565
              |||  |  |||||  | |  |  |  |    | ||     ||  || |  |  |||   |
Db        287 AATACCAGAGTGGCTTCTTTCTTACTGCAGCATGATGCAGATATCAATGCCCAAACAAAA 346

Qy       2566 GTCAGCCACGGCCGTGTGCCTTTTCTTGCTGGGCTACCTGACAGTCAAGAGGAGACACTG 2625
              | |  |      ||   ||| | ||  |||||||  |   |||||  | ||      |
Db        347 GGCCTCTTGACCCCCTTGCATCTTGCTGCTGGGAAAAGAGACAGCAAGGATACCCTAGAA 406

Qy       2626 AACTTCTTGATGAACAGTGGGTTCGATCCCAAGAAGCAAAAGTACTTGCAAGACATCGCC 2685
              | || |||||||| ||    || | ||   |  | ||||  |||||  |||| |  ||
Db        407 CTCCTCCTGATGAACCGTTACGTCAAACCAGGGCTGAAAAACAACTTGGAAGAAACTGCA 466

Qy       2686 TGGGATCTTCAAAAGCGGAAATGT 2709
              |  ||| ||   | | ||| | ||
Db        467 TTTGATATTGCCAGGAGGACAAGT 490


RESULT 5
US-10-123-155-358/c
; Sequence 358, Application US/10123155
; Publication No. US20030068794A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Beresini,Maureen
;  APPLICANT:  DeForge,Laura
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gao,Wei-Qiang
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Sherwood,Steven
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Stewart,Timothy A.
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  Watanabe,Colin K
;  APPLICANT:  Wood,William
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3330R1C30
;  CURRENT APPLICATION NUMBER: US/10/123,155
;  CURRENT FILING DATE:  2002-04-15
; Prior Application removed -  See Palm or File Wrapper
;  NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 358
;   LENGTH: 1049
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-123-155-358

  Query Match             1.1%;  Score 44.8;  DB 14;  Length 1049;
  Best Local Similarity   5.2%;  Pred. No. 0.0049;
  Matches   42;  Conservative  229;  Mismatches  531;  Indels    2;  Gaps    1;

Qy        211 TCCCTGAACCAGGCAGAAGCCAACTTCTTCATCGAGGCCAAAGCTGCGAGCTCGAACTGG 270
              :::   :::  :         ::  :: : :: :   :    :|:: |:: : :::
Db       1006 YMY....MSM...M.......BHBM.HK.Y.DS.R.T.M.N.AMTRMHAKB.BAMMS... 947

Qy        271 GTGCCCAAAGCCCACGCCGACCCTGACACGCTTCCGTGGTCCAAGGAACCTCCCCGCGCC 330
              : :       |  ::       :  : :   |:  | ::      :|: :   :: |:
Db        946 S.S.N..B..C..WHY...G.N.DM.Y.H..MTB..T.BW.ABT.HMAHRB..THRGGH. 887

Qy        331 GCTACTGCCGGCCAACAATGGGCATTGCAGACTGTGTTGCTCGAGGTGCTTAATAGGTTT 390
              :      :   :  :  :::   : :: |: ::    ::   :        :   |: :
Db        886 S..Y.RCM.MTMG.DR.RWBHW.R.DSTAKKBK...SBS.S.S....NA.H..GAR.H.S 827

Qy        391 ATGCCACCTCCCAATAACACACCAGGTCGAACGTTTGGCAGAACTCTAAGCGGCCCAAGT 450
              :: |:    |: |::|      : :::: ::| |      :    ::   :
Db        826 .BS.CMDTC.CBGABHAT.R..AB.ADNBWWB.WBTHGAG..YNDD...KM.NN.BN... 767

Qy        451 GGCCTGAGCCGCCCAACCTCTACCAACACCAAACGCAAGGATGAGCCCGCCAATGTCACT 510
              : :  :  : :: : ::   |:   ::| :     :    :   ::: :    :
Db        766 SAM..K..MNSS.H.RY...TH...RMA.SY..NNM...NM--.SYSGNS.Y..BAA..N 709

Qy        511 TTCGCTGATCCGCCCAAACGCTCGTTGACTCGCTCTGCCACAGGTCCTCCTATTCACGGC 570
              :       : |  :::  :: |  |    :   : :  |    :   :  :
Db        708 DS.H.A..NM.G..MMWS.SM.CNMT.S.NM.N..KCH.BCS...S.SNMS.H....M.. 649

Qy        571 GCGGCGATACCCCTAAAGTTCCCCGATCCAGTGAATACCGGTTCCAAACGACCATCTCTC 630
              :   :: :| ::  : : |:   |: : : :|  |::: : :    :  :: :
Db        648 NM....RYNHC.YW.BH.DNCY...AY.S.S.KAYSASSS.HNHNKK.M..BM.NMA.N. 589

Qy        631 GAGAGTGAGAATCTCAATCAGTGCACCAAGCGGGCCAAGGGCAAGCTGTCTGATAATGTT 690
              ::    :  ::   : : :   :      |:     :  :   :  |
Db        588 KDA.C.S..RDSNSS.H.B..MD....TASD..H.YNNS.H.RY..T.....SCN.A.S. 529

Qy        691 GCCGCTGCCGCCGCCCCGCCCGTGCCTATTGCGAGCGCTTTGGACAAGGTACCGACTCGA 750
              |:    :  :    :::::   :    :    :::    ::        : :| :|  :
Db        528 .NCS.N.GM..S.D..HSSMB...SNMS.H.A.CRMRGS.NBSK.ST.MNM.YGSYTRMH 469

Qy        751 AGGCATGCCAATACGAGAGATCCCACGGCGACAGGTCATAGACGAGCGGACCAGGTGGAT 810
              :  :      :  :   | :  |: :::|  : :  :  : :: :   :  :   :
Db        468 RY.RD....B...RS.BSAYTNSG.CB.SSHCS.S.MNBS.H.BM.YM..M.KS.NT.M. 409

Qy        811 TCCTTTGATACATCTCAAGGCACTTCCTATGGTTCGAGTGTCTTCAGCGCTTGCCGTCAC 870
              :       :      :  : ::   :    :   : |    ::|:::
Db        408 .NAC.H.B..N..ND..S.N.SM..M.BRCY.Y..M.SM.SS.T.S.NKSTYRB....N. 349
```

```
Qy         871 AATCAGAGCACTACCCAGAGTAGTTTTGAGGCTCCTCCTTCACAGCCCAGAGAGAAGCGG 930
                   :       :   : :      :     :       :  : ::   : : ::     :
Db         348 S.H....S...D..MTHC..MT..N.S.H....MN.NM.WY..BD..SNSD.Y.BM..A. 289

Qy         931 CCTGTGGATGCCACGGTCTTTGAGGCTGGACACTTGATTGAGTCTCCTAGCAAAGGAAGA 990
                  :   :     :   |          : : | |  :          ::         : :
Db         288 TH.TNB.....SNNMG.TG...TNRGY.GNCS.H.....N.NN.HH...MT.KNNR.R.. 229

Qy         991 ACAACCAAGTCCCACATAGATAAC 1014
                | |     | :  :  :  : :: :
Db         228 A.AS..BA.BTABNNHM.S.BM.M 205
```

RESULT 6
US-10-146-731-358/c
; Sequence 358, Application US/10146731
; Publication No. US20030129692A1
; GENERAL INFORMATION:
; APPLICANT: Baker,Kevin P.
; APPLICANT: Beresini,Maureen
; APPLICANT: DeForge,Laura
; APPLICANT: Desnoyers,Luc
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gao,Wei-Qiang
; APPLICANT: Gerritsen,Mary E.
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Sherwood,Steven
; APPLICANT: Smith,Victoria
; APPLICANT: Stewart,Timothy A.
; APPLICANT: Tumas,Daniel
; APPLICANT: Watanabe,Colin K
; APPLICANT: Wood,William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C323
; CURRENT APPLICATION NUMBER: US/10/146,731
; CURRENT FILING DATE: 2002-05-15
; Prior Application removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 358
; LENGTH: 1049
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-146-731-358

```
  Query Match             1.1%;  Score 44.8;  DB 15;  Length 1049;
  Best Local Similarity   5.2%;  Pred. No. 0.0049;
  Matches   42;  Conservative  229;  Mismatches  531;  Indels    2;  Gaps    1;

Qy         211 TCCCTGAACCAGGCAGAAGCCAACTTCTTCATCGAGGCCAAAGCTGCGAGCTCGAACTGG 270
               :::   :::   :          ::  :: : : : :   :     :|:: |:: : :::
Db        1006 YMY....MSM...M.......BHBM.HK.Y.DS.R.T.M.N.AMTRMHAKB.BAMMS... 947

Qy         271 GTGCCCAAAGCCCACGCCGACCCTGACACGCTTCCGTGGTCCAAGGAACCTCCCCGCGCC 330
               : :       |  ::          : : :    |:  | ::       :|: :   :: |:
Db         946 S.S.N..B..C..WHY...G.N.DM.Y.H..MTB..T.BW.ABT.HMAHRB..THRGGH. 887

Qy         331 GCTACTGCCGGCCAACAATGGGCATTGCAGACTGTGTTGCTCGAGGTGCTTAATAGGTTT 390
               :      :   :  :  :::   : :: |: ::     ::   :        :   |: :
Db         886 S..Y.RCM.MTMG.DR.RWBHW.R.DSTAKKBK...SBS.S.S....NA.H..GAR.H.S 827

Qy         391 ATGCCACCTCCCAATAACACACCAGGTCGAACGTTTGGCAGAACTCTAAGCGGCCCAAGT 450
                :: |:     |: |::|            : :::: ::| |      :      ::    :
Db         826 .BS.CMDTC.CBGABHAT.R..AB.ADNBWWB.WBTHGAG..YNDD...KM.NN.BN... 767

Qy         451 GGCCTGAGCCGCCCAACCTCTACCAACACCAAACGCAAGGATGAGCCCGCCAATGTCACT 510
               : :  :  : :: : ::     |:     ::| :      :      :    ::: :    :
Db         766 SAM..K..MNSS.H.RY...TH...RMA.SY..NNM...NM--.SYSGNS.Y..BAA..N 709

Qy         511 TTCGCTGATCCGCCCAAACGCTCGTTGACTCGCTCTGCCACAGGTCCTCCTATTCACGGC 570
                 :        : |  :::  :: |  |     :      : :    |    :    :   :
Db         708 DS.H.A..NM.G..MMWS.SM.CNMT.S.NM.N..KCH.BCS...S.SNMS.H....M.. 649

Qy         571 GCGGCGATACCCCTAAAGTTCCCCGATCCAGTGAATACCGGTTCCAAACGACCATCTCTC 630
                :     :: :| ::   : :|:   |: : : :|  |::: :    :   :   ::  :
Db         648 NM....RYNHC.YW.BH.DNCY...AY.S.S.KAYSASSS.HNHNKK.M..BM.NMA.N. 589

Qy         631 GAGAGTGAGAATCTCAATCAGTGCACCAAGCGGGCCAAGGGCAAGCTGTCTGATAATGTT 690
               ::   :  ::    :  :  :     :          |:       :     :       |
Db         588 KDA.C.S..RDSNSS.H.B..MD....TASD..H.YNNS.H.RY..T.....SCN.A.S. 529

Qy         691 GCCGCTGCCGCCGCCCCGCCCGTGCCTATTGCGAGCGCTTTGGACAAGGTACCGACTCGA 750
                 |:   :  :      :::::    :     :     :::     ::        : :| :| :
Db         528 .NCS.N.GM..S.D..HSSMB...SNMS.H.A.CRMRGS.NBSK.ST.MNM.YGSYTRMH 469

Qy         751 AGGCATGCCAATACGAGAGATCCCACGGCGACAGGTCATAGACGAGCGGACCAGGTGGAT 810
                :  :          : :    | :  |: :::|  : : :   : :: :    :   :     :
Db         468 RY.RD....B...RS.BSAYTNSG.CB.SSHCS.S.MNBS.H.BM.YM..M.KS.NT.M. 409

Qy         811 TCCTTTGATACATCTCAAGGCACTTCCTATGGTTCGAGTGTCTTCAGCGCTTGCCGTCAC 870
                    :          :   : ::   :     :     :  |       ::|:::
Db         408 .NAC.H.B..N..ND..S.N.SM..M.BRCY.Y..M.SM.SS.T.S.NKSTYRB....N. 349

Qy         871 AATCAGAGCACTACCCAGAGTAGTTTTGAGGCTCCTCCTTCACAGCCCAGAGAGAAGCGG 930
                   :   :   :  :       :     :       :  : ::   : : ::     :
Db         348 S.H....S...D..MTHC..MT..N.S.H....MN.NM.WY..BD..SNSD.Y.BM..A. 289

Qy         931 CCTGTGGATGCCACGGTCTTTGAGGCTGGACACTTGATTGAGTCTCCTAGCAAAGGAAGA 990
                  :   :     :   |          : : | |  :          ::         : :
Db         288 TH.TNB.....SNNMG.TG...TNRGY.GNCS.H.....N.NN.HH...MT.KNNR.R.. 229

Qy         991 ACAACCAAGTCCCACATAGATAAC 1014
                | |     | :  :  :  : :: :
Db         228 A.AS..BA.BTABNNHM.S.BM.M 205
```

RESULT 7
US-10-140-472-358/c
; Sequence 358, Application US/10140472
; Publication No. US20030138888A1
; GENERAL INFORMATION:
; APPLICANT: Baker,Kevin P.
; APPLICANT: Beresini,Maureen
; APPLICANT: DeForge,Laura
; APPLICANT: Desnoyers,Luc
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gao,Wei-Qiang
; APPLICANT: Gerritsen,Mary E.
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Sherwood,Steven
; APPLICANT: Smith,Victoria
; APPLICANT: Stewart,Timothy A.
; APPLICANT: Tumas,Daniel
; APPLICANT: Watanabe,Colin K
; APPLICANT: Wood,William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C168
; CURRENT APPLICATION NUMBER: US/10/140,472
; CURRENT FILING DATE: 2002-05-06
; Prior Apploication removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 358
; LENGTH: 1049
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-140-472-358

```
  Query Match             1.1%;  Score 44.8;  DB 15;  Length 1049;
```

```
  Best Local Similarity   5.2%;  Pred. No. 0.0049;
  Matches   42;  Conservative  229;  Mismatches  531;  Indels    2;  Gaps    1;

Qy        211 TCCCTGAACCAGGCAGAAGCCAACTTCTTCATCGAGGCCAAAGCTGCGAGCTCGAACTGG 270
              :::    :::   :              ::  :: : :: :    :    :|:: |:: : :::
Db       1006 YMY....MSM...M.......BHBM.HK.Y.DS.R.T.M.N.AMTRMHAKB.BAMMS... 947

Qy        271 GTGCCCAAAGCCCACGCCGACCCTGACACGCTTCCGTGGTCCAAGGAACCTCCCCGCGCC 330
              : :       |  ::          :  :  :   |:  |  ::      :|: :    :: |:
Db        946 S.S.N..B..C..WHY...G.N.DM.Y.H..MTB..T.BW.ABT.HMAHRB..THRGGH. 887

Qy        331 GCTACTGCCGGCCAACAATGGGCATTGCAGACTGTGTTGCTCGAGGTGCTTAATAGGTTT 390
              :       :   :   :  :::   : ::  |: ::    ::   :     :     |: :
Db        886 S..Y.RCM.MTMG.DR.RWBHW.R.DSTAKKBK...SBS.S.S....NA.H..GAR.H.S 827

Qy        391 ATGCCACCTCCCAATAACACACCAGGTCGAACGTTTGGCAGAACTCTAAGCGGCCCAAGT 450
               :: |:     |: |::|            : :::: ::| |       :      ::    :
Db        826 .BS.CMDTC.CBGABHAT.R..AB.ADNBWWB.WBTHGAG..YNDD...KM.NN.BN... 767

Qy        451 GGCCTGAGCCGCCCAACCTCTACCAACACCAAACGCAAGGATGAGCCCGCCAATGTCACT 510
              : :  :  : :: : ::       |:    ::| :     :     :   :::   :    :
Db        766 SAM..K..MNSS.H.RY...TH...RMA.SY..NNM...NM--.SYSGNS.Y..BAA..N 709

Qy        511 TTCGCTGATCCGCCCAAACGCTCGTTGACTCGCTCTGCCACAGGTCCTCCTATTCACGGC 570
              :          : |  :::  :: |  |     :     : :   |     :    :   :
Db        708 DS.H.A..NM.G..MMWS.SM.CNMT.S.NM.N..KCH.BCS...S.SNMS.H....M.. 649

Qy        571 GCGGCGATACCCCTAAAGTTCCCCGATCCAGTGAATACCGGTTCCAAACGACCATCTCTC 630
                :    :: :| ::   : : |:    |: : : :|   |::: :     :  ::   :
Db        648 NM....RYNHC.YW.BH.DNCY...AY.S.S.KAYSASSS.HNHNKK.M..BM.NMA.N. 589

Qy        631 GAGAGTGAGAATCTCAATCAGTGCACCAAGCGGGCCAAGGGCAAGCTGTCTGATAATGTT 690
              ::    :  ::   : : :    :          |:     :    :    :   |
Db        588 KDA.C.S..RDSNSS.H.B..MD....TASD..H.YNNS.H.RY..T.....SCN.A.S. 529

Qy        691 GCCGCTGCCGCCGCCCCGCCCGTGCCTATTGCGAGCGCTTTGGACAAGGTACCGACTCGA 750
                |:    :   :     :::::   :     :     :::     ::        : :| :| :
Db        528 .NCS.N.GM..S.D..HSSMB...SNMS.H.A.CRMRGS.NBSK.ST.MNM.YGSYTRMH 469

Qy        751 AGGCATGCCAATACGAGAGATCCCACGGCGACAGGTCATAGACGAGCGGACCAGGTGGAT 810
              :    :          : :    | :  |: :::|  : : :   : :: :   :   :    :
Db        468 RY.RD....B...RS.BSAYTNSG.CB.SSHCS.S.MNBS.H.BM.YM..M.KS.NT.M. 409

Qy        811 TCCTTTGATACATCTCAAGGCACTTCCTATGGTTCGAGTGTCTTCAGCGCTTGCCGTCAC 870
                         :         :  : :   :   :     :   |     ::|:::
Db        408 .NAC.H.B..N..ND..S.N.SM..M.BRCY.Y..M.SM.SS.T.S.NKSTYRB....N. 349

Qy        871 AATCAGAGCACTACCCAGAGTAGTTTGAGGCTCCTCCTTCACAGCCCAGAGAGAAGCGG 930
                :    :    :   :  :           :     :   : ::    :  : ::      :
Db        348 S.H....S...D..MTHC..MT..N.S.H....MN.NM.WY..BD..SNSD.Y.BM..A. 289

Qy        931 CCTGTGGATGCCACGGTCTTTGAGGCTGGACACTTGATTGAGTCTCCTAGCAAAGGAAGA 990
                :    :      :    |          : :  | |  :              ::        : :
Db        288 TH.TNB.....SNNMG.TG...TNRGY.GNCS.H.....N.NN.HH...MT.KNNR.R.. 229

Qy        991 ACAACCAAGTCCCACATAGATAAC 1014
               | |     |  :   :   :   : :: :
Db        228 A.AS..BA.BTABNNHM.S.BM.M 205

RESULT 8
US-10-141-761-358/c
; Sequence 358, Application US/10141761
; Publication No. US20030148432A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Beresini,Maureen
;  APPLICANT:  DeForge,Laura
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gao,Wei-Qiang
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Sherwood,Steven
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Stewart,Timothy A.
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  Watanabe,Colin K
;  APPLICANT:  Wood,William
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3330R1C198
;  CURRENT APPLICATION NUMBER: US/10/141,761
;  CURRENT FILING DATE:  2002-05-08
;  Prior Application removed - See Palm or File Wrapper
;  NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 358
;   LENGTH: 1049
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-141-761-358

  Query Match              1.1%;  Score 44.8;  DB 15;  Length 1049;
  Best Local Similarity   5.2%;  Pred. No. 0.0049;
  Matches   42;  Conservative  229;  Mismatches  531;  Indels    2;  Gaps    1;

Qy        211 TCCCTGAACCAGGCAGAAGCCAACTTCTTCATCGAGGCCAAAGCTGCGAGCTCGAACTGG 270
              :::    :::   :              ::  :: : :: :    :    :|:: |:: : :::
Db       1006 YMY....MSM...M.......BHBM.HK.Y.DS.R.T.M.N.AMTRMHAKB.BAMMS... 947

Qy        271 GTGCCCAAAGCCCACGCCGACCCTGACACGCTTCCGTGGTCCAAGGAACCTCCCCGCGCC 330
              : :       |  ::          :  :  :   |:  |  ::      :|: :    :: |:
Db        946 S.S.N..B..C..WHY...G.N.DM.Y.H..MTB..T.BW.ABT.HMAHRB..THRGGH. 887

Qy        331 GCTACTGCCGGCCAACAATGGGCATTGCAGACTGTGTTGCTCGAGGTGCTTAATAGGTTT 390
              :       :   :   :  :::   : ::  |: ::    ::   :     :     |: :
Db        886 S..Y.RCM.MTMG.DR.RWBHW.R.DSTAKKBK...SBS.S.S....NA.H..GAR.H.S 827

Qy        391 ATGCCACCTCCCAATAACACACCAGGTCGAACGTTTGGCAGAACTCTAAGCGGCCCAAGT 450
               :: |:     |: |::|            : :::: ::| |       :      ::    :
Db        826 .BS.CMDTC.CBGABHAT.R..AB.ADNBWWB.WBTHGAG..YNDD...KM.NN.BN... 767

Qy        451 GGCCTGAGCCGCCCAACCTCTACCAACACCAAACGCAAGGATGAGCCCGCCAATGTCACT 510
              : :  :  : :: : ::       |:    ::| :     :     :   :::   :    :
Db        766 SAM..K..MNSS.H.RY...TH...RMA.SY..NNM...NM--.SYSGNS.Y..BAA..N 709

Qy        511 TTCGCTGATCCGCCCAAACGCTCGTTGACTCGCTCTGCCACAGGTCCTCCTATTCACGGC 570
              :          : |  :::  :: |  |     :     : :   |     :    :   :
Db        708 DS.H.A..NM.G..MMWS.SM.CNMT.S.NM.N..KCH.BCS...S.SNMS.H....M.. 649

Qy        571 GCGGCGATACCCCTAAAGTTCCCCGATCCAGTGAATACCGGTTCCAAACGACCATCTCTC 630
                :    :: :| ::   : : |:    |: : : :|   |::: :     :  ::   :
Db        648 NM....RYNHC.YW.BH.DNCY...AY.S.S.KAYSASSS.HNHNKK.M..BM.NMA.N. 589

Qy        631 GAGAGTGAGAATCTCAATCAGTGCACCAAGCGGGCCAAGGGCAAGCTGTCTGATAATGTT 690
              ::    :  ::   : : :    :          |:     :    :    :   |
Db        588 KDA.C.S..RDSNSS.H.B..MD....TASD..H.YNNS.H.RY..T.....SCN.A.S. 529

Qy        691 GCCGCTGCCGCCGCCCCGCCCGTGCCTATTGCGAGCGCTTTGGACAAGGTACCGACTCGA 750
                |:    :   :     :::::   :     :     :::     ::        : :| :| :
Db        528 .NCS.N.GM..S.D..HSSMB...SNMS.H.A.CRMRGS.NBSK.ST.MNM.YGSYTRMH 469

Qy        751 AGGCATGCCAATACGAGAGATCCCACGGCGACAGGTCATAGACGAGCGGACCAGGTGGAT 810
              :    :          : :    | :  |: :::|  : : :   : :: :   :   :    :
Db        468 RY.RD....B...RS.BSAYTNSG.CB.SSHCS.S.MNBS.H.BM.YM..M.KS.NT.M. 409

Qy        811 TCCTTTGATACATCTCAAGGCACTTCCTATGGTTCGAGTGTCTTCAGCGCTTGCCGTCAC 870
                         :         :  : :   :   :     :   |     ::|:::
Db        408 .NAC.H.B..N..ND..S.N.SM..M.BRCY.Y..M.SM.SS.T.S.NKSTYRB....N. 349

Qy        871 AATCAGAGCACTACCCAGAGTAGTTTGAGGCTCCTCCTTCACAGCCCAGAGAGAAGCGG 930
                :    :    :   :  :           :     :   : ::    :  : ::      :
Db        348 S.H....S...D..MTHC..MT..N.S.H....MN.NM.WY..BD..SNSD.Y.BM..A. 289
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```
Qy        931 CCTGTGGATGCCACGGTCTTTGAGGCTGGACACTTGATTGAGTCTCCTAGCAAAGGAAGA 990
Db        288 TH.TNB.....SNNMG.TG...TNRGY.GNCS.H.....N.NN.HH...MT.KNNR.R.. 229

Qy        991 ACAACCAAGTCCCACATAGATAAC 1014
Db        228 A.AS..BA.BTABNNHM.S.BM.M 205


RESULT 9
US-10-142-885-358/c
; Sequence 358, Application US/10142885
; Publication No. US20030157604A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Beresini,Maureen
;  APPLICANT:  DeForge,Laura
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gao,Wei-Qiang
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Sherwood,Steven
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Stewart,Timothy A.
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  Watanabe,Colin K
;  APPLICANT:  Wood,William
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3330R1C248
;  CURRENT APPLICATION NUMBER: US/10/142,885
;  CURRENT FILING DATE:  2002-05-10
;  Prior Apploication removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 358
;   LENGTH: 1049
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-142-885-358

  Query Match             1.1%;  Score 44.8;  DB 16;  Length 1049;
  Best Local Similarity   5.2%;  Pred. No. 0.0049;
  Matches   42;  Conservative  229;  Mismatches  531;  Indels    2;  Gaps    1;

Qy        211 TCCCTGAACCAGGCAGAAGCCAACTTCTTCATCGAGGCCAAAGCTGCGAGCTCGAACTGG 270
Db       1006 YMY....MSM...M.......BHBM.HK.Y.DS.R.T.M.N.AMTRMHAKB.BAMMS... 947

Qy        271 GTGCCCAAAGCCCACGCCGACCCTGACACGCTTCCGTGGTCCAAGGAACCTCCCCGCGCC 330
Db        946 S.S.N..B..C..WHY...G.N.DM.Y.H..MTB..T.BW.ABT.HMAHRB..THRGGH. 887

Qy        331 GCTACTGCCGGCCAACAATGGGCATTGCAGACTGTGTTGCTCGAGGTGCTTAATAGGTTT 390
Db        886 S..Y.RCM.MTMG.DR.RWBHW.R.DSTAKKBK...SBS.S.S....NA.H..GAR.H.S 827

Qy        391 ATGCCACCTCCCAATAACACACCAGGTCGAACGTTTGGCAGAACTCTAAGCGGCCCAAGT 450
Db        826 .BS.CMDTC.CBGABHAT.R..AB.ADNBWWB.WBTHGAG..YNDD...KM.NN.BN... 767

Qy        451 GGCCTGAGCCGCCCAACCTCTACCAACACCAAACGCAAGGATGAGCCCGCCAATGTCACT 510
Db        766 SAM..K..MNSS.H.RY...TH...RMA.SY..NNM...NM--.SYSGNS.Y..BAA..N 709

Qy        511 TTCGCTGATCCGCCCAAACGCTCGTTGACTCGCTCTGCCACAGGTCCTCCTATTCACGGC 570
Db        708 DS.H.A..NM.G..MMWS.SM.CNMT.S.NM.N..KCH.BCS...S.SNMS.H....M.. 649

Qy        571 GCGGCGATACCCCTAAAGTTCCCCGATCCAGTGAATACCGGTTCCAAACGACCATCTCTC 630
Db        648 NM....RYNHC.YW.BH.DNCY...AY.S.S.KAYSASSS.HNHNKK.M..BM.NMA.N. 589

Qy        631 GAGAGTGAGAATCTCAATCAGTGCACCAAGCGGGCCAAGGGCAAGCTGTCTGATAATGTT 690
Db        588 KDA.C.S..RDSNSS.H.B..MD....TASD..H.YNNS.H.RY..T.....SCN.A.S. 529

Qy        691 GCCGCTGCCGCCGCCCCGCCCGTGCCTATTGCGAGCGCTTTGGACAAGGTACCGACTCGA 750
Db        528 .NCS.N.GM..S.D..HSSMB...SNMS.H.A.CRMRGS.NBSK.ST.MNM.YGSYTRMH 469

Qy        751 AGGCATGCCAATACGAGAGATCCCACGGCGACAGGTCATAGACGAGCGGACCAGGTGGAT 810
Db        468 RY.RD....B...RS.BSAYTNSG.CB.SSHCS.S.MNBS.H.BM.YM..M.KS.NT.M. 409

Qy        811 TCCTTTGATACATCTCAAGGCACTTCCTATGGTTCGAGTGTCTTCAGCGCTTGCCGTCAC 870
Db        408 .NAC.H.B..N..ND..S.N.SM..M.BRCY.Y..M.SM.SS.T.S.NKSTYRB....N. 349

Qy        871 AATCAGAGCACTACCCAGAGTAGTTTTGAGGCTCCTCCTTCACAGCCCAGAGAGAAGCGG 930
Db        348 S.H....S...D..MTHC..MT..N.S.H....MN.NM.WY..BD..SNSD.Y.BM..A. 289

Qy        931 CCTGTGGATGCCACGGTCTTTGAGGCTGGACACTTGATTGAGTCTCCTAGCAAAGGAAGA 990
Db        288 TH.TNB.....SNNMG.TG...TNRGY.GNCS.H.....N.NN.HH...MT.KNNR.R.. 229

Qy        991 ACAACCAAGTCCCACATAGATAAC 1014
Db        228 A.AS..BA.BTABNNHM.S.BM.M 205


RESULT 10
US-10-158-790-358/c
; Sequence 358, Application US/10158790
; Publication No. US20030180879A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Beresini,Maureen
;  APPLICANT:  DeForge,Laura
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gao,Wei-Qiang
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Sherwood,Steven
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Stewart,Timothy A.
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  Watanabe,Colin K
;  APPLICANT:  Wood,William
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3330R1C448
;  CURRENT APPLICATION NUMBER: US/10/158,790
;  CURRENT FILING DATE:  2002-05-30
;  Prior Application removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 358
;   LENGTH: 1049
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-158-790-358

  Query Match             1.1%;  Score 44.8;  DB 16;  Length 1049;
  Best Local Similarity   5.2%;  Pred. No. 0.0049;
  Matches   42;  Conservative  229;  Mismatches  531;  Indels    2;  Gaps    1;

Qy        211 TCCCTGAACCAGGCAGAAGCCAACTTCTTCATCGAGGCCAAAGCTGCGAGCTCGAACTGG 270
```

```
Db       1006 YMY....MSM...M.......BHBM.HK.Y.DS.R.T.M.N.AMTRMHAKB.BAMMS... 947

Qy        271 GTGCCCAAAGCCCACGCCGACCCTGACACGCTTCCGTGGTCCAAGGAACCTCCCCGCGCC 330
Db         946 S.S.N..B..C..WHY...G.N.DM.Y.H..MTB..T.BW.ABT.HMAHRB..THRGGH. 887

Qy        331 GCTACTGCCGGCCAACAATGGGCATTGCAGACTGTGTTGCTCGAGGTGCTTAATAGGTTT 390
Db         886 S..Y.RCM.MTMG.DR.RWBHW.R.DSTAKKBK...SBS.S.S....NA.H..GAR.H.S 827

Qy        391 ATGCCACCTCCCAATAACACACCAGGTCGAACGTTTGGCAGAACTCTAAGCGGCCCAAGT 450
Db         826 .BS.CMDTC.CBGABHAT.R..AB.ADNBWWB.WBTHGAG..YNDD...KM.NN.BN... 767

Qy        451 GGCCTGAGCCGCCCAACCTCTACCAACACCAAACGCAAGGATGAGCCCGCCAATGTCACT 510
Db         766 SAM..K..MNSS.H.RY...TH...RMA.SY..NNM...NM--.SYSGNS.Y..BAA..N 709

Qy        511 TTCGCTGATCCGCCCAAACGCTCGTTGACTCGCTCTGCCACAGGTCCTCCTATTCACGGC 570
Db         708 DS.H.A..NM.G..MMWS.SM.CNMT.S.NM.N..KCH.BCS...S.SNMS.H....M.. 649

Qy        571 GCGGCGATACCCCTAAAGTTCCCCGATCCAGTGAATACCGGTTCCAAACGACCATCTCTC 630
Db         648 NM....RYNHC.YW.BH.DNCY...AY.S.S.KAYSASSS.HNHNKK.M..BM.NMA.N. 589

Qy        631 GAGAGTGAGAATCTCAATCAGTGCACCAAGCGGGCCAAGGGCAAGCTGTCTGATAATGTT 690
Db         588 KDA.C.S..RDSNSS.H.B..MD....TASD..H.YNNS.H.RY..T.....SCN.A.S. 529

Qy        691 GCCGCTGCCGCCGCCCCGCCCGTGCCTATTGCGAGCGCTTTGGACAAGGTACCGACTCGA 750
Db         528 .NCS.N.GM..S.D..HSSMB...SNMS.H.A.CRMRGS.NBSK.ST.MNM.YGSYTRMH 469

Qy        751 AGGCATGCCAATACGAGAGATCCCACGGCGACAGGTCATAGACGAGCGGACCAGGTGGAT 810
Db         468 RY.RD....B...RS.BSAYTNSG.CB.SSHCS.S.MNBS.H.BM.YM..M.KS.NT.M. 409

Qy        811 TCCTTTGATACATCTCAAGGCACTTCCTATGGTTCGAGTGTCTTCAGCGCTTGCCGTCAC 870
Db         408 .NAC.H.B..N..ND..S.N.SM..M.BRCY.Y..M.SM.SS.T.S.NKSTYRB....N. 349

Qy        871 AATCAGAGCACTACCCAGAGTAGTTTTGAGGCTCCTCCTTCACAGCCCAGAGAGAAGCGG 930
Db         348 S.H....S...D..MTHC..MT..N.S.H....MN.NM.WY..BD..SNSD.Y.BM..A. 289

Qy        931 CCTGTGGATGCCACGGTCTTTGAGGCTGGACACTTGATTGAGTCTCCTAGCAAAGGAAGA 990
Db         288 TH.TNB.....SNNMG.TG...TNRGY.GNCS.H.....N.NN.HH...MT.KNNR.R.. 229

Qy        991 ACAACCAAGTCCCACATAGATAAC 1014
Db         228 A.AS..BA.BTABNNHM.S.BM.M 205
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RESULT 11
US-10-137-871-358/c
; Séquence 358, Application US/10137871
; Publication No. US20030207350A1
; GENERAL INFORMATION:
; APPLICANT: Baker,Kevin P.
; APPLICANT: Beresini,Maureen
; APPLICANT: DeForge,Laura
; APPLICANT: Desnoyers,Luc
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gao,Wei-Qiang
; APPLICANT: Gerritsen,Mary E.
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Sherwood,Steven
; APPLICANT: Smith,Victoria
; APPLICANT: Stewart,Timothy A.
; APPLICANT: Tumas,Daniel
; APPLICANT: Watanabe,Colin K
; APPLICANT: Wood,William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C153
; CURRENT APPLICATION NUMBER: US/10/137,871
; CURRENT FILING DATE: 2002-05-03
; Prior Application removed - See Palm or File Wrapper
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 358
; LENGTH: 1049
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-137-871-358

Query Match 1.1%; Score 44.8; DB 17; Length 1049;
Best Local Similarity 5.2%; Pred. No. 0.0049;
Matches 42; Conservative 229; Mismatches 531; Indels 2; Gaps 1;

```
Qy        211 TCCCTGAACCAGGCAGAAGCCAACTTCTTCATCGAGGCCAAAGCTGCGAGCTCGAACTGG 270
Db       1006 YMY....MSM...M.......BHBM.HK.Y.DS.R.T.M.N.AMTRMHAKB.BAMMS... 947

Qy        271 GTGCCCAAAGCCCACGCCGACCCTGACACGCTTCCGTGGTCCAAGGAACCTCCCCGCGCC 330
Db         946 S.S.N..B..C..WHY...G.N.DM.Y.H..MTB..T.BW.ABT.HMAHRB..THRGGH. 887

Qy        331 GCTACTGCCGGCCAACAATGGGCATTGCAGACTGTGTTGCTCGAGGTGCTTAATAGGTTT 390
Db         886 S..Y.RCM.MTMG.DR.RWBHW.R.DSTAKKBK...SBS.S.S....NA.H..GAR.H.S 827

Qy        391 ATGCCACCTCCCAATAACACACCAGGTCGAACGTTTGGCAGAACTCTAAGCGGCCCAAGT 450
Db         826 .BS.CMDTC.CBGABHAT.R..AB.ADNBWWB.WBTHGAG..YNDD...KM.NN.BN... 767

Qy        451 GGCCTGAGCCGCCCAACCTCTACCAACACCAAACGCAAGGATGAGCCCGCCAATGTCACT 510
Db         766 SAM..K..MNSS.H.RY...TH...RMA.SY..NNM...NM--.SYSGNS.Y..BAA..N 709

Qy        511 TTCGCTGATCCGCCCAAACGCTCGTTGACTCGCTCTGCCACAGGTCCTCCTATTCACGGC 570
Db         708 DS.H.A..NM.G..MMWS.SM.CNMT.S.NM.N..KCH.BCS...S.SNMS.H....M.. 649

Qy        571 GCGGCGATACCCCTAAAGTTCCCCGATCCAGTGAATACCGGTTCCAAACGACCATCTCTC 630
Db         648 NM....RYNHC.YW.BH.DNCY...AY.S.S.KAYSASSS.HNHNKK.M..BM.NMA.N. 589

Qy        631 GAGAGTGAGAATCTCAATCAGTGCACCAAGCGGGCCAAGGGCAAGCTGTCTGATAATGTT 690
Db         588 KDA.C.S..RDSNSS.H.B..MD....TASD..H.YNNS.H.RY..T.....SCN.A.S. 529

Qy        691 GCCGCTGCCGCCGCCCCGCCCGTGCCTATTGCGAGCGCTTTGGACAAGGTACCGACTCGA 750
Db         528 .NCS.N.GM..S.D..HSSMB...SNMS.H.A.CRMRGS.NBSK.ST.MNM.YGSYTRMH 469

Qy        751 AGGCATGCCAATACGAGAGATCCCACGGCGACAGGTCATAGACGAGCGGACCAGGTGGAT 810
Db         468 RY.RD....B...RS.BSAYTNSG.CB.SSHCS.S.MNBS.H.BM.YM..M.KS.NT.M. 409

Qy        811 TCCTTTGATACATCTCAAGGCACTTCCTATGGTTCGAGTGTCTTCAGCGCTTGCCGTCAC 870
Db         408 .NAC.H.B..N..ND..S.N.SM..M.BRCY.Y..M.SM.SS.T.S.NKSTYRB....N. 349

Qy        871 AATCAGAGCACTACCCAGAGTAGTTTTGAGGCTCCTCCTTCACAGCCCAGAGAGAAGCGG 930
Db         348 S.H....S...D..MTHC..MT..N.S.H....MN.NM.WY..BD..SNSD.Y.BM..A. 289

Qy        931 CCTGTGGATGCCACGGTCTTTGAGGCTGGACACTTGATTGAGTCTCCTAGCAAAGGAAGA 990
Db         288 TH.TNB.....SNNMG.TG...TNRGY.GNCS.H.....N.NN.HH...MT.KNNR.R.. 229
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Qy        991 ACAACCAAGTCCCACATAGATAAC 1014
              | ||    | :  :  :  : :: :
Db        228 A.AS..BA.BTABNNHM.S.BM.M 205


RESULT 12
US-10-140-923-358/c
; Sequence 358, Application US/10140923
; Publication No. US20030207355A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Beresini,Maureen
;  APPLICANT:  DeForge,Laura
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gao,Wei-Qiang
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Sherwood,Steven
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Stewart,Timothy A.
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  Watanabe,Colin K
;  APPLICANT:  Wood,William
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3330R1C188
;  CURRENT APPLICATION NUMBER: US/10/140,923
;  CURRENT FILING DATE:  2002-05-07
;  Prior Application removed - See Palm or File Wrapper
;  NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 358
;   LENGTH: 1049
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-140-923-358

  Query Match             1.1%;  Score 44.8;  DB 17;  Length 1049;
  Best Local Similarity   5.2%;  Pred. No. 0.0049;
  Matches   42;  Conservative  229;  Mismatches  531;  Indels    2;  Gaps    1;

Qy        211 TCCCTGAACCAGGCAGAAGCCAACTTCTTCATCGAGGCCAAAGCTGCGAGCTCGAACTGG 270
              :::    :::   :        ::  :: : :: :   :    :|:: |:: : :::
Db       1006 YMY....MSM...M.......BHBM.HK.Y.DS.R.T.M.N.AMTRMHAKB.BAMMS... 947

Qy        271 GTGCCCAAAGCCCACGCCGACCCTGACACGCTTCCGTGGTCCAAGGAACCTCCCCGCGCC 330
              : :       |  ::       :  : :   |:  | ::      :|: :   :: |:
Db        946 S.S.N..B..C..WHY...G.N.DM.Y.H..MTB..T.BW.ABT.HMAHRB..THRGGH. 887

Qy        331 GCTACTGCCGGCCAACAATGGGCATTGCAGACTGTGTTGCTCGAGGTGCTTAATAGGTTT 390
              :     :   :  :::   : :: |: ::   ::  :     :   |: :
Db        886 S..Y.RCM.MTMG.DR.RWBHW.R.DSTAKKBK...SBS.S.S....NA.H..GAR.H.S 827

Qy        391 ATGCCACCTCCCAATAACACACCAGGTCGAACGTTTGGCAGAACTCTAAGCGGCCCAAGT 450
              :: |:    |: |::|        : :::: ::| |      :    ::    :
Db        826 .BS.CMDTC.CBGABHAT.R..AB.ADNBWWB.WBTHGAG..YNDD...KM.NN.BN... 767

Qy        451 GGCCTGAGCCGCCCAACCTCTACCAACACCAAACGCAAGGATGAGCCCGCCAATGTCACT 510
              : :  :  : :: : ::   |:   ::| :     :    :  :::  :    :
Db        766 SAM..K..MNSS.H.RY...TH...RMA.SY..NNM...NM--.SYSGNS.Y..BAA..N 709

Qy        511 TTCGCTGATCCGCCCAAACGCTCGTTGACTCGCTCTGCCACAGGTCCTCCTATTCACGGC 570
              :       : |  :::  :: |  |     :   : :  |   :   :  :
Db        708 DS.H.A..NM.G..MMWS.SM.CNMT.S.NM.N..KCH.BCS...S.SNMS.H....M.. 649

Qy        571 GCGGCGATACCCCTAAAGTTCCCCGATCCAGTGAATACCGGTTCCAAACGACCATCTCTC 630
              :    :: :| ::  : : |:   |: : : :|  |::: : :    :  ::  :
Db        648 NM....RYNHC.YW.BH.DNCY...AY.S.S.KAYSASSS.HNHNKK.M..BM.NMA.N. 589

Qy        631 GAGAGTGAGAATCTCAATCAGTGCACCAAGCGGGCCAAGGGCAAGCTGTCTGATAATGTT 690
              ::    :  ::   : : :   :      |:     :  :   :  |
Db        588 KDA.C.S..RDSNSS.H.B..MD....TASD..H.YNNS.H.RY..T.....SCN.A.S. 529

Qy        691 GCCGCTGCCGCCGCCCCGCCCGTGCCTATTGCGAGCGCTTTGGACAAGGTACCGACTCGA 750
                |:    :  :    :::::   :    :    :::    ::        : :| :|  :
Db        528 .NCS.N.GM..S.D..HSSMB...SNMS.H.A.CRMRGS.NBSK.ST.MNM.YGSYTRMH 469

Qy        751 AGGCATGCCAATACGAGAGATCCCACGGCGACAGGTCATAGACGAGCGGACCAGGTGGAT 810
              :   :         : :   | :  |: :::|  : : :  : :: :   :  :   :
Db        468 RY.RD....B...RS.BSAYTNSG.CB.SSHCS.S.MNBS.H.BM.YM..M.KS.NT.M. 409

Qy        811 TCCTTTGATACATCTCAAGGCACTTCCTATGGTTCGAGTGTCTTCAGCGCTTGCCGTCAC 870
              :       :       :  : ::   :    :   : |    ::|:::
Db        408 .NAC.H.B..N..ND..S.N.SM..M.BRCY.Y..M.SM.SS.T.S.NKSTYRB....N. 349

Qy        871 AATCAGAGCACTACCCAGAGTAGTTTTGAGGCTCCTCCTTCACAGCCCAGAGAGAAGCGG 930
              :   :   :  : :           :    :   : ::   :  : ::    :
Db        348 S.H....S...D..MTHC..MT..N.S.H....MN.NM.WY..BD..SNSD.Y.BM..A. 289

Qy        931 CCTGTGGATGCCACGGTCTTTGAGGCTGGACACTTGATTGAGTCTCCTAGCAAAGGAAGA 990
              :   :    :  |       : : | |  :          ::        : :
Db        288 TH.TNB.....SNNMG.TG...TNRGY.GNCS.H.....N.NN.HH...MT.KNNR.R.. 229

Qy        991 ACAACCAAGTCCCACATAGATAAC 1014
              | ||    | :  :  :  : :: :
Db        228 A.AS..BA.BTABNNHM.S.BM.M 205


RESULT 13
US-10-141-756-358/c
; Sequence 358, Application US/10141756
; Publication No. US20030207359A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Beresini,Maureen
;  APPLICANT:  DeForge,Laura
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gao,Wei-Qiang
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Sherwood,Steven
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Stewart,Timothy A.
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  Watanabe,Colin K
;  APPLICANT:  Wood,William
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3330R1C200
;  CURRENT APPLICATION NUMBER: US/10/141,756
;  CURRENT FILING DATE:  2002-05-08
;  Prior Apploication removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 358
;   LENGTH: 1049
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-141-756-358

  Query Match             1.1%;  Score 44.8;  DB 17;  Length 1049;
  Best Local Similarity   5.2%;  Pred. No. 0.0049;
  Matches   42;  Conservative  229;  Mismatches  531;  Indels    2;  Gaps    1;

Qy        211 TCCCTGAACCAGGCAGAAGCCAACTTCTTCATCGAGGCCAAAGCTGCGAGCTCGAACTGG 270
              :::    :::   :        ::  :: : :: :   :    :|:: |:: : :::
Db       1006 YMY....MSM...M.......BHBM.HK.Y.DS.R.T.M.N.AMTRMHAKB.BAMMS... 947

Qy        271 GTGCCCAAAGCCCACGCCGACCCTGACACGCTTCCGTGGTCCAAGGAACCTCCCCGCGCC 330
```

```
Db        946 S.S.N..B..C..WHY...G.N.DM.Y.H..MTB..T.BW.ABT.HMAHRB..THRGGH. 887

Qy        331 GCTACTGCCGGCCAACAATGGGCATTGCAGACTGTGTTGCTCGAGGTGCTTAATAGGTTT 390

Db        886 S..Y.RCM.MTMG.DR.RWBHW.R.DSTAKKBK...SBS.S.S....NA.H..GAR.H.S 827

Qy        391 ATGCCACCTCCCAATAACACACCAGGTCGAACGTTTGGCAGAACTCTAAGCGGCCCAAGT 450

Db        826 .BS.CMDTC.CBGABHAT.R..AB.ADNBWWB.WBTHGAG..YNDD...KM.NN.BN... 767

Qy        451 GGCCTGAGCCGCCCAACCTCTACCAACACCAAACGCAAGGATGAGCCCGCCAATGTCACT 510

Db        766 SAM..K..MNSS.H.RY...TH...RMA.SY..NNM...NM--.SYSGNS.Y..BAA..N 709

Qy        511 TTCGCTGATCCGCCCAAACGCTCGTTGACTCGCTCTGCCACAGGTCCTCCTATTCACGGC 570

Db        708 DS.H.A..NM.G..MMWS.SM.CNMT.S.NM.N..KCH.BCS...S.SNMS.H....M.. 649

Qy        571 GCGGCGATACCCCTAAAGTTCCCCGATCCAGTGAATACCGGTTCCAAACGACCATCTCTC 630

Db        648 NM....RYNHC.YW.BH.DNCY...AY.S.S.KAYSASSS.HNHNKK.M..BM.NMA.N. 589

Qy        631 GAGAGTGAGAATCTCAATCAGTGCACCAAGCGGGCCAAGGGCAAGCTGTCTGATAATGTT 690

Db        588 KDA.C.S..RDSNSS.H.B..MD....TASD..H.YNNS.H.RY..T.....SCN.A.S. 529

Qy        691 GCCGCTGCCGCCGCCCCGCCCGTGCCTATTGCGAGCGCTTTGGACAAGGTACCGACTCGA 750

Db        528 .NCS.N.GM..S.D..HSSMB...SNMS.H.A.CRMRGS.NBSK.ST.MNM.YGSYTRMH 469

Qy        751 AGGCATGCCAATACGAGAGATCCCACGGCGACAGGTCATAGACGAGCGGACCAGGTGGAT 810

Db        468 RY.RD....B...RS.BSAYTNSG.CB.SSHCS.S.MNBS.H.BM.YM..M.KS.NT.M. 409

Qy        811 TCCTTTGATACATCTCAAGGCACTTCCTATGGTTCGAGTGTCTTCAGCGCTTGCCGTCAC 870

Db        408 .NAC.H.B..N..ND..S.N.SM..M.BRCY.Y..M.SM.SS.T.S.NKSTYRB....N. 349

Qy        871 AATCAGAGCACTACCCAGAGTAGTTTTGAGGCTCCTCCTTCACAGCCCAGAGAGAAGCGG 930

Db        348 S.H....S...D..MTHC..MT..N.S.H....MN.NM.WY..BD..SNSD.Y.BM..A. 289

Qy        931 CCTGTGGATGCCACGGTCTTTGAGGCTGGACACTTGATTGAGTCTCCTAGCAAAGGAAGA 990

Db        288 TH.TNB.....SNNMG.TG...TNRGY.GNCS.H.....N.NN.HH...MT.KNNR.R.. 229

Qy        991 ACAACCAAGTCCCACATAGATAAC 1014

Db        228 A.AS..BA.BTABNNHM.S.BM.M 205
```

RESULT 14
US-10-141-759-358/c
; Sequence 358, Application US/10141759
; Publication No. US20030207361A1
; GENERAL INFORMATION:
; APPLICANT: Baker,Kevin P.
; APPLICANT: Beresini,Maureen
; APPLICANT: DeForge,Laura
; APPLICANT: Desnoyers,Luc
; APPLICANT: Filvaroff,Ellen
; APPLICANT: Gao,Wei-Qiang
; APPLICANT: Gerritsen,Mary E.
; APPLICANT: Goddard,Audrey
; APPLICANT: Godowski,Paul J.
; APPLICANT: Gurney,Austin L.
; APPLICANT: Sherwood,Steven
; APPLICANT: Smith,Victoria
; APPLICANT: Stewart,Timothy A.
; APPLICANT: Tumas,Daniel
; APPLICANT: Watanabe,Colin K
; APPLICANT: Wood,William
; APPLICANT: Zhang, Zemin
; TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
; TITLE OF INVENTION: ACIDS ENCODING THE SAME
; FILE REFERENCE: P3330R1C197
; CURRENT APPLICATION NUMBER: US/10/141,759
; CURRENT FILING DATE: 2002-05-08
; Prior Apploication removed - See File Wrapper or Palm
; NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 358
; LENGTH: 1049
; TYPE: PRT
; ORGANISM: Homo Sapien
US-10-141-759-358

Query Match 1.1%; Score 44.8; DB 17; Length 1049;
Best Local Similarity 5.2%; Pred. No. 0.0049;
Matches 42; Conservative 229; Mismatches 531; Indels 2; Gaps 1;

```
Qy        211 TCCCTGAACCAGGCAGAAGCCAACTTCTTCATCGAGGCCAAAGCTGCGAGCTCGAACTGG 270

Db       1006 YMY....MSM...M.......BHBM.HK.Y.DS.R.T.M.N.AMTRMHAKB.BAMMS... 947

Qy        271 GTGCCCAAAGCCCACGCCGACCCTGACACGCTTCCGTGGTCCAAGGAACCTCCCCGCGCC 330

Db        946 S.S.N..B..C..WHY...G.N.DM.Y.H..MTB..T.BW.ABT.HMAHRB..THRGGH. 887

Qy        331 GCTACTGCCGGCCAACAATGGGCATTGCAGACTGTGTTGCTCGAGGTGCTTAATAGGTTT 390

Db        886 S..Y.RCM.MTMG.DR.RWBHW.R.DSTAKKBK...SBS.S.S....NA.H..GAR.H.S 827

Qy        391 ATGCCACCTCCCAATAACACACCAGGTCGAACGTTTGGCAGAACTCTAAGCGGCCCAAGT 450

Db        826 .BS.CMDTC.CBGABHAT.R..AB.ADNBWWB.WBTHGAG..YNDD...KM.NN.BN... 767

Qy        451 GGCCTGAGCCGCCCAACCTCTACCAACACCAAACGCAAGGATGAGCCCGCCAATGTCACT 510

Db        766 SAM..K..MNSS.H.RY...TH...RMA.SY..NNM...NM--.SYSGNS.Y..BAA..N 709

Qy        511 TTCGCTGATCCGCCCAAACGCTCGTTGACTCGCTCTGCCACAGGTCCTCCTATTCACGGC 570

Db        708 DS.H.A..NM.G..MMWS.SM.CNMT.S.NM.N..KCH.BCS...S.SNMS.H....M.. 649

Qy        571 GCGGCGATACCCCTAAAGTTCCCCGATCCAGTGAATACCGGTTCCAAACGACCATCTCTC 630

Db        648 NM....RYNHC.YW.BH.DNCY...AY.S.S.KAYSASSS.HNHNKK.M..BM.NMA.N. 589

Qy        631 GAGAGTGAGAATCTCAATCAGTGCACCAAGCGGGCCAAGGGCAAGCTGTCTGATAATGTT 690

Db        588 KDA.C.S..RDSNSS.H.B..MD....TASD..H.YNNS.H.RY..T.....SCN.A.S. 529

Qy        691 GCCGCTGCCGCCGCCCCGCCCGTGCCTATTGCGAGCGCTTTGGACAAGGTACCGACTCGA 750

Db        528 .NCS.N.GM..S.D..HSSMB...SNMS.H.A.CRMRGS.NBSK.ST.MNM.YGSYTRMH 469

Qy        751 AGGCATGCCAATACGAGAGATCCCACGGCGACAGGTCATAGACGAGCGGACCAGGTGGAT 810

Db        468 RY.RD....B...RS.BSAYTNSG.CB.SSHCS.S.MNBS.H.BM.YM..M.KS.NT.M. 409

Qy        811 TCCTTTGATACATCTCAAGGCACTTCCTATGGTTCGAGTGTCTTCAGCGCTTGCCGTCAC 870

Db        408 .NAC.H.B..N..ND..S.N.SM..M.BRCY.Y..M.SM.SS.T.S.NKSTYRB....N. 349

Qy        871 AATCAGAGCACTACCCAGAGTAGTTTTGAGGCTCCTCCTTCACAGCCCAGAGAGAAGCGG 930

Db        348 S.H....S...D..MTHC..MT..N.S.H....MN.NM.WY..BD..SNSD.Y.BM..A. 289

Qy        931 CCTGTGGATGCCACGGTCTTTGAGGCTGGACACTTGATTGAGTCTCCTAGCAAAGGAAGA 990

Db        288 TH.TNB.....SNNMG.TG...TNRGY.GNCS.H.....N.NN.HH...MT.KNNR.R.. 229

Qy        991 ACAACCAAGTCCCACATAGATAAC 1014

Db        228 A.AS..BA.BTABNNHM.S.BM.M 205
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RESULT 15
US-10-140-805-358/c
; Sequence 358, Application US/10140805
; Publication No. US20030207417A1
; GENERAL INFORMATION:
;  APPLICANT: Baker,Kevin P.
;  APPLICANT:  Beresini,Maureen
;  APPLICANT:  DeForge,Laura
;  APPLICANT:  Desnoyers,Luc
;  APPLICANT:  Filvaroff,Ellen
;  APPLICANT:  Gao,Wei-Qiang
;  APPLICANT:  Gerritsen,Mary E.
;  APPLICANT:  Goddard,Audrey
;  APPLICANT:  Godowski,Paul J.
;  APPLICANT:  Gurney,Austin L.
;  APPLICANT:  Sherwood,Steven
;  APPLICANT:  Smith,Victoria
;  APPLICANT:  Stewart,Timothy A.
;  APPLICANT:  Tumas,Daniel
;  APPLICANT:  Watanabe,Colin K
;  APPLICANT:  Wood,William
;  APPLICANT:  Zhang, Zemin
;  TITLE OF INVENTION: SECRETED AND TRANSMEMBRANE POLYPEPTIDES AND NUCLEIC
;  TITLE OF INVENTION:  ACIDS ENCODING THE SAME
;  FILE REFERENCE: P3330R1C176
;  CURRENT APPLICATION NUMBER: US/10/140,805
;  CURRENT FILING DATE:  2002-05-07
;  Prior Apploication removed - See File Wrapper or Palm
;  NUMBER OF SEQ ID NOS: 550
; SEQ ID NO 358
;   LENGTH: 1049
;   TYPE: PRT
;   ORGANISM: Homo Sapien
US-10-140-805-358

  Query Match             1.1%;  Score 44.8;  DB 17;  Length 1049;
  Best Local Similarity   5.2%;  Pred. No. 0.0049;
  Matches   42;  Conservative  229;  Mismatches  531;  Indels    2;  Gaps    1;

Qy        211 TCCCTGAACCAGGCAGAAGCCAACTTCTTCATCGAGGCCAAAGCTGCGAGCTCGAACTGG 270
              :::    :::   :        ::  :: : :: :   :    :|:: |:: : :::
Db       1006 YMY....MSM...M.......BHBM.HK.Y.DS.R.T.M.N.AMTRMHAKB.BAMMS... 947

Qy        271 GTGCCCAAAGCCCACGCCGACCCTGACACGCTTCCGTGGTCCAAGGAACCTCCCCGCGCC 330
              : :       |  ::        :  : :   |:  | ::      :|: :   :: |:
Db        946 S.S.N..B..C..WHY...G.N.DM.Y.H..MTB..T.BW.ABT.HMAHRB..THRGGH. 887

Qy        331 GCTACTGCCGGCCAACAATGGGCATTGCAGACTGTGTTGCTCGAGGTGCTTAATAGGTTT 390
              :      :   :  :  :::   : :: |: ::    ::   :       :   |: :
Db        886 S..Y.RCM.MTMG.DR.RWBHW.R.DSTAKKBK...SBS.S.S....NA.H..GAR.H.S 827

Qy        391 ATGCCACCTCCCAATAACACACCAGGTCGAACGTTTGGCAGAACTCTAAGCGGCCCAAGT 450
               :: |:    |: |::|        : :::: ::| |     :    ::    :
Db        826 .BS.CMDTC.CBGABHAT.R..AB.ADNBWWB.WBTHGAG..YNDD...KM.NN.BN... 767

Qy        451 GGCCTGAGCCGCCCAACCTCTACCAACACCAAACGCAAGGATGAGCCCGCCAATGTCACT 510
              : :  :  : :: : ::   |:   ::| :     :    :   ::: :    :
Db        766 SAM..K..MNSS.H.RY...TH...RMA.SY..NNM...NM--.SYSGNS.Y..BAA..N 709

Qy        511 TTCGCTGATCCGCCCAAACGCTCGTTGACTCGCTCTGCCACAGGTCCTCCTATTCACGGC 570
              :        : |  :::  :: |  |    :    : :  |    :   :  :
Db        708 DS.H.A..NM.G..MMWS.SM.CNMT.S.NM.N..KCH.BCS...S.SNMS.H....M.. 649

Qy        571 GCGGCGATACCCCTAAAGTTCCCCGATCCAGTGAATACCGGTTCCAAACGACCATCTCTC 630
               :    :: :| ::  : : |:   |: : : :|  |::: : :    :  ::  :
Db        648 NM....RYNHC.YW.BH.DNCY...AY.S.S.KAYSASSS.HNHNKK.M..BM.NMA.N. 589

Qy        631 GAGAGTGAGAATCTCAATCAGTGCACCAAGCGGGCCAAGGGCAAGCTGTCTGATAATGTT 690
              ::    :  ::   : : :   :      |:     :  :   :   |
Db        588 KDA.C.S..RDSNSS.H.B..MD....TASD..H.YNNS.H.RY..T.....SCN.A.S. 529

Qy        691 GCCGCTGCCGCCGCCCCGCCCGTGCCTATTGCGAGCGCTTTGGACAAGGTACCGACTCGA 750
               |:    :  :   :::::   :    :    :::   ::       : :| :|  :
Db        528 .NCS.N.GM..S.D..HSSMB...SNMS.H.A.CRMRGS.NBSK.ST.MNM.YGSYTRMH 469

Qy        751 AGGCATGCCAATACGAGAGATCCCACGGCGACAGGTCATAGACGAGCGGACCAGGTGGAT 810
              :  :      : :  | :  |: :::|  : : :  : :: :   :  :
Db        468 RY.RD....B...RS.BSAYTNSG.CB.SSHCS.S.MNBS.H.BM.YM..M.KS.NT.M. 409

Qy        811 TCCTTTGATACATCTCAAGGCACTTCCTATGGTTCGAGTGTCTTCAGCGCTTGCCGTCAC 870
                :       :      :  : ::  :   :   : |    ::|:::
Db        408 .NAC.H.B..N..ND..S.N.SM..M.BRCY.Y..M.SM.SS.T.S.NKSTYRB....N. 349

Qy        871 AATCAGAGCACTACCCAGAGTAGTTTTGAGGCTCCTCCTTCACAGCCCAGAGAGAAGCGG 930
              :   :   :  : :          :   :   : ::   :  : ::    :
Db        348 S.H....S...D..MTHC..MT..N.S.H....MN.NM.WY..BD..SNSD.Y.BM..A. 289

Qy        931 CCTGTGGATGCCACGGTCTTTGAGGCTGGACACTTGATTGAGTCTCCTAGCAAAGGAAGA 990
              :   :     :   |        : : | |  :             ::       : :
Db        288 TH.TNB.....SNNMG.TG...TNRGY.GNCS.H.....N.NN.HH...MT.KNNR.R.. 229

Qy        991 ACAACCAAGTCCCACATAGATAAC 1014
              | |    | :  :  :  : :: :
Db        228 A.AS..BA.BTABNNHM.S.BM.M 205


Search completed: September  7, 2005, 10:28:01
Job time : 25393 secs
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